

DEPARTMENT OF THE AIR FORCE

COMMITTEE STAFF PROCUREMENT BACKUP BOOK FY 1999 BUDGET ESTIMATES FEBRUARY 1998



OTHER PROCUREMENT, AIR FORCE

OFFICE ORIGIN: DIRECTORATE OF SUPPLY
COMBAT SUPPORT DIVISION
(AF/ILSR)

CD 21

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT BUDGET ESTIMATES
FOR FISCAL YEAR 1999

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Tables of contents are provided for each of the budget activities at the appropriate tabs. The budget activities are as follows:

Vehicular Equipment
Communications and Electronics
Other Base Maintenance and Support Equipment
Spares and Repair Parts

IDENTIFICATION CODES

Code "A" - Line items of material which have been approved for Air Force service use; i. e., line items which have been classified as standard or alternate.

Code "B" - Line items of material that have not been approved for Service use as defined in Code "A".

GLOSSARY

Contract Method

Allot - Allotment
C - Competitive
DO - Delivery Order
FCA - Fund Cite Authority
MIPR - Military Interdepartmental Purchase Request
OA - Obligation Authority
OPT - Option
PO - Project Order
Reqn - Requisition
SS - Sole Source
WP - Work Project

NOTE; In the event a contract is multi-year, "M" will be added to the above code with a number to indicate the number of years (e. g., SSM-2).

Contract Type

C/FP - Competitive/Fixed Price
C/FFP - Competitive/Firm Fixed Price
C/FPIS - Competitive Fixed Price incentive with Successive Targets
CM-5 - Competitive Multi-year - 5 years
CPAF - Cost Plus Award Fee
CPFF - Cost Plus Fixed Fee
CPIF - Cost Plus Incentive Fee
FFP - Firm Fixed Price
FP - Fixed Price
FPAF - Fixed Price Award Fee
FPE - Fixed Price with Escalation

ID/IQ - Indefinite Delivery/Indefinite Quantity

Contracted By

11 SptWG - 1st Support Wing, Washington, DC
ACC - Air Combat Command, Langley AFB, VA
AEDC - Arnold Engineering Development Center, Arnold AFB, TN
AETC - Air Education and Training Command, Randolph AFB, TX
AFCA - Air Force Communications Command, Scott AFB, IL
AFCESA - Air Force Civil Engineering Support Agency, Tyndall AFB, FL
AFFTC - Air Force Flight Test Center, Edwards AFB, CA
AFMC - Air Force Materiel Command, Wright-Patterson AFB, OH
AFMC/ESC-38ELW/CSPO - AF Materiel Cmd/Elec Sys Ctr - 38 Engineering & Installation Wing/Comm Sys
Pgm Office, Tinker AFB, OK
AFMETCAL - Air Force Metrology and Calibration Office
AFMLO - Air Force Medical Logistics Office, Ft Detrick, MD
AIA - Air Intelligence Agency, Kelly AFB, TX
AMC - Air Mobility Command, Scott AFB, IL
ASC - Aeronautical Systems Center, Wright - Patterson AFB, OH & Eglin AFB, FL
AWS - Air Weather Service, Scott AFB, IL
DGSC - Defense General Support Center, Richmond, VA
DPSC - Defense Personnel Support Center, Philadelphia, PA
ER - Eastern Range, Patrick AFB, FL
ESC - Electronic Systems Center, Hanscom AFB, MA
HSC - Human Services Center, Brooks AFB, TX
OC-ALC - Oklahoma City Air Logistics Center, Tinker AFB, OK
00-ALC - Ogden Air Logistics Center, Hill AFB, UT
SA-ALC - San Antonio Air Logistics Center, Kelly AFB, TX
SM-ALC - Sacramento Air Logistics Center, McClellan AFB, CA
SMC - Space & Missile Systems Center, Los Angeles AFB, CA
US STRATCOM - US Strategic Command, Offutt AFB, NE
WACC - Washington Area Contracting Center, Washington, DC
WR - Western Range, Vandenberg AFB, CA
WR-ALC - Warner-Robins Air Logistics Center, Robins AFB, GA
AFSPC - Air Force Space Command, Petersen AFB, CO
HQ ANG - Headquarters, Air National Guard, Washington, DC
USAFE - United States Air Force Europe, Ramstein AFB, GE
USAF A - United States Air Force Academy, Colorado Springs, CO
SSG - Standard Systems Group, Maxwell AFB-Gunter Annex, AL

Bases/Organizations

1 1st SptWG - 1st Support Wing
ACC - Air Combat Command
AETC - Air Education & Training Command
AFC4A - Air Force Command, Control, Communications & Computer Agency
AFCAO - Air Force Computer Acquisition Office
AFCESA - Air Force Civil Engineering Support Agency
AFCSC - Air Force Cryptologic Service Center
AFESC - Air Force Engineering Services Center
AFGWC - Air Force Global Weather Central
AFIT - Air Force Institute of Technology
AFMC - Air Force Materiel Command
AFMETCAL - Air Force Metrology and Calibration Office
AFMLO - Air Force Medical Logistics Office
AFNEWS - Air Force information & News Service Center
AFOSI - Air Force Office of Special Investigation
AFPC - Air Force Personnel Center
AFPSL - AF Primary Standards Lab
AFR - Air Force Reserve
AFSOC - AF Special Operations Command
AFSPC - Air Force Space Command
AIA - Air Intelligence Agency
AMC - Air Mobility Command
ANG - Air National Guard
AU - Air University
AWS - Air Weather Service
CIA - Central Intelligence Agency
DGSC - Defense General Support Center
DLA - Defense Logistics Agency
DOE - Department of Energy
DSCC - Defense Supply Center,
DSPC - Defense Personnel Support Center
ER - Eastern Range
ESC - Electronics Systems Center
ESMC - Eastern Space & Missile Center
FAA - Federal Aviation Agency
FBI - Federal Bureau of Investigation

GSA - General Services Administration
JCS - Joint Chiefs of Staff
JSC - Johnson Space Center
NATO - North Atlantic Treaty Organization
NBS - National Bureau of Standards
PACAF - Pacific Air Forces
USAF - United States Air Force
USAFA - United States Air Force Academy
USAFE - United States Air Forces Europe
USCENTCOM - United States Central Command
USEUCOM - United States European Command
USMC - United States Marine Corps
USSTRATCOM - United States Strategic Command
WPAFB - Wright-Patterson AFB, OH
WR - Western Range
WSMC - Western Space and Missile Center

APPROPRIATION LANGUAGE

OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not to exceed 1 vehicle required for physical security of personnel, notwithstanding price limitation applicable to passenger vehicles but not to exceed \$239,000 per vehicle; the purchase of not to exceed 304 passenger motor vehicles of which all shall be for replacement only; and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior () approval of title; reserve plant and Government and contractor-owned equipment layaway; \$6,974,400,000 to remain available for obligation until September 30, 2001

UNCLASSIFIED
DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

SUMMARY
(\$ IN MILLIONS)

FEB 1998

APPROPRIATION: OTHER PROCUREMENT, AIR FORCE

| <u>ACTIVITY</u> | <u>FY 1997</u> | <u>FY 1998</u> | <u>FY 1999</u> |
|--|----------------|----------------|----------------|
| 02. VEHICULAR EQUIPMENT | 102.0 | 175.2 | 192.1 |
| 03. ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT | 861.5 | 870.3 | 865.0 |
| 04. OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT | 4,970.9 | 5,384.6 | 5,864.6 |
| 05. SPARE AND REPAIR PARTS | 36.5 | 54.5 | 52.7 |
| | ----- | ----- | ----- |
| TOTAL | 51970.9 | 6,484.7 | 6,974.4 |

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) FY 1999 UNIT COST | MILLIONS OF DOLLARS | | | | | | S E C |
|--|----------------------------------|------------|-----------------------------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|-------------|
| | | | | FY 1997 QUANTITY | FY 1997 COST | FY 1998 QUANTITY | FY 1998 COST | FY 1999 QUANTITY | FY 1999 COST | |
| BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT | | | | | | | | | | |
| PASSENGER CARRYING VEHICLES | | | | | | | | | | |
| 1 | SEDAN, 4 DR 4X2 | A | 14,444 | 153 | 2.2 | 71 | 1.2 | 54 | .8 | U |
| 2 | STATION WAGON, 4X2 | A | 18,772 | 57 | 1.0 | 5 | .1 | 22 | .4 | U |
| 3 | BUSES | A | 56,239 | 91 | 4.8 | 23 | 1.9 | 26 | 5.2 | U |
| 4 | AMBULANCES | A | 76,500 | 3 | .2 | 3 | .2 | 4 | .3 | U |
| 5 | LAW ENFORCEMENT VEHICLE | A | 19,126 | 199 | 3.4 | 85 | 1.5 | 95 | 1.8 | U |
| 6 | ARMORED SEDAN | A | 239,000 | 1 | .3 | 1 | .2 | 1 | .2 | U |
| CARGO + UTILITY VEHICLES | | | | | | | | | | |
| 7 | TRUCK, CARGO-UTILITY, 3/4T, 4X4 | A | 27,377 | 332 | 8.6 | 159 | 4.3 | 225 | 6.2 | U |
| 8 | TRUCK, CARGO-UTILITY, 1/2T, 4X2 | A | 25,115 | 266 | 6.1 | 116 | 2.8 | 104 | 2.6 | U |
| 9 | TRUCK, PICKUP, 1/2T, 4X2 | A | 15,220 | 577 | 7.7 | 333 | 5.8 | 222 | 3.4 | U |
| 10 | TRUCK, PICKUP, COMPACT | A | 12,474 | 689 | 5.6 | 168 | 2.0 | 196 | 2.4 | U |
| 11 | TRUCK MULTI-STOP 1 TON 4X2 | A | 27,644 | 420 | 11.2 | 302 | 8.2 | 315 | 8.7 | U |
| 12 | TRUCK CARRYALL | A | 24,362 | 138 | 2.6 | 127 | 2.7 | 160 | 3.9 | U |
| 13 | COMMERCIAL UTILITY CARGO VEHICLE | A | | | | 45 | 1.5 | | | U |
| 14 | FAMILY MEDIUM TACTICAL VEHICLES | A | | | | 21 | 3.1 | | | U |

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DEPARTMENT OF THE AIR FORCE
FY1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) | MILLIONS OF DOLLARS | | | | | | S E C | |
|------------------------------|-----------------------------|------------|-------------------|----------------------------|------------------------|----------------------------|------------------------|----------------------------|------------------------|-------|---|
| | | | FY 1999 UNIT COST | -----FY 1997----- QUANTITY | -----FY 1997----- COST | -----FY 1998----- QUANTITY | -----FY 1998----- COST | -----FY 1999----- QUANTITY | -----FY 1999----- COST | | |
| 15 | HIGH MOBILITY VEHICLE (MYP) | A | 55,626 | | | | 100 | 5.4 | 75 | 4.2 | U |
| 16 | TRUCK TRACTOR, OVER 5T | A | 65,654 | 47 | 3.5 | | 25 | 1.8 | 55 | 3.6 | U |
| 17 | TRUCK, UTILITY | A | 26,991 | | | | | | 124 | 3.3 | u |
| 18 | CAP VEHICLES | A | | | .8 | | | 1.0 | | .7 | u |
| 19 | ITEMS LESS THAN \$2,000,000 | A | | | 13.3 | | | 4.3 | | 3.0 | u |
| SPECIAL PURPOSE VEHICLES | | | | | | | | | | | |
| 20 | HMMWV, ARMORED | A | | 45 | 8.8 | | 125 | 23.7 | | | U |
| 21 | TRACTOR, TOW, FLIGHTLINE | A | 28,677 | 110 | 3.0 | | 124 | 3.8 | 279 | 8.0 | u |
| 22 | ITEM9 LESS THAN \$2,000,000 | A | | | 6.7 | | | 5.7 | | 12.7 | U |
| FIRE FIGHTING EQUIPMENT | | | | | | | | | | | |
| 23 | TRUCK CRASH P-19 | A | 463,307 | | | | 7 | 2.0 | 13 | 6.0 | U |
| 24 | ITEMS LESS THAN \$2,000,000 | A | | | | | | 3.7 | | 2.3 | U |
| MATERIALS HANDLING EQUIPMENT | | | | | | | | | | | |
| 25 | TRUCK, F/L 6000 LB | A | 27,714 | | | | | | 84 | 2.3 | U |
| 26 | TRUCK, F/L 10,000 LB | A | 76,696 | | | | 15 | .8 | 56 | 4.3 | u |
| 27 | 60K A/C LOADER | A | 1,486,316 | | | | 60 | 81.2 | 60 | 89.2 | u |

* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE
 FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE W-W-- | (DOLLARS) | | MILLION9 OF DOLLARS | | S E C |
|---------|--|---------------------|----------------------|---------------------|---------------------|---------------------|-------------|
| | | | FY 1999 UNIT COST | FY 1997 QUANTITY | FY 1998 COST | FY 1999 QUANTITY | |
| 28 | ITEMS LESS THAN \$2,000,000 | A | | | 2.6 | 2.1 | 3.2 U |
| | BRSE MAINTENANCE SUPPORT | | | | | | |
| 29 | TRUCK, DUMP | A | | | | 8 .4 | U |
| 30 | RUNWAY SNOW REMOV AND CLEANING EQUIP | A | 95,804 | | | | 41 3.9 u |
| 31 | MODIFICATIONS | A | | | 1.8 | .2 | .9 u |
| 32 | ITEMS LESS THAN \$2,000,000 | A | | | 3.1 | 3.7 | 7.7 u |
| | CANCELLED ACCOUNT ADJUSTM | | | | | | |
| 33 | CANCELLED ACCOUNT ADJUSTMENTS | A | | | 4.8 | | U |
| | TOTAL VEHICULAR EQUIPMENT | | | | 102.0 | 175.2 | 192.1 |
| | BUDGET ACTIVITY 03: ELECTRONIC9 AND TELECOMMUNICATIONS EQUIPMENT | | | | | | |
| | COMM SECURITY EQUIPMENT{ COMSEC) | | | | | | |
| 34 | COMSEC EQUIPMENT | A | | | 25.8 | 25.7 | 30.3 u |
| 35 | MODIFICATIONS (COMSEC) | A | | | .5 | .5 | .5 u |
| | INTELLIGENCE PROGRAM9 | | | | | | |
| 36 | INTELLIGENCE DATA HANDLING SYS | A | | | 16.4 | 23.4 | 17.6 U |
| 37 | INTELLIGENCE TRAINING EQUIPMENT | A | | | 2.0 | 2.3 | 5.7 u |

* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | MILLION ⁹ OF DOLLARS | | | | E C | | | |
|---------|---|------------|---------------------------------|------------------|--------------|------------------|------|--------------|------------------|--------------|
| | | | (DOLLARS) FY 1999 UNIT COST | FY 1997 QUANTITY | FY 1997 COST | FY 1998 QUANTITY | | FY 1998 COST | FY 1999 QUANTITY | FY 1999 COST |
| 38 | INTELLIGENCE COMM EQUIP | A | | | 13.7 | | 7.0 | | 5.7 | u |
| | ELECTRONIC ⁹ PROGRAMS | | | | | | | | | |
| 39 | AIR TRAFFIC CTRL/LAND SYS (ATCALs) | A | | | | | 6.7 | | | U |
| 40 | NATIONAL AIRSPACE SYSTEM | A | | | | | 16.2 | | 45.3 | u |
| 41 | TREATER AIR CONTROL sys IMPROVEMENT | A | | | 18.8 | | 36.7 | | 30.0 | u |
| 42 | WEATHER OBSERV/FORCAST | A | | | 17.6 | | 21.3 | | 18.6 | u |
| 43 | STRATEGIC COMMAND AND CONTROL | A | | | 13.4 | | 20.0 | | 10.8 | U |
| 44 | CHEYENNE MOUNTAIN COMPLEX | A | | | 2.2 | | .7 | | .9 | u |
| 45 | TAC SIGINT SUPPORT | A | | | 5.5 | | 6.0 | | 1.9 | u |
| 46 | DRUG INTERDICTION PROGRAM | A | | | 23.0 | | | | | U |
| | SPECIAL COMM-ELECTRONICS PROJECTS | | | | | | | | | |
| 47 | AUTOMATIC DATA PROCESSING EQUIP | A | | | 33.0 | | 35.9 | | 33.2 | U |
| 48 | AF GLOBAL COMMAND & CONTROL SYS | A | | | 9.8 | | 7.1 | | 5.8 | u |
| 49 | MOBILITY COMMAND AND CONTROL | A | | | 7.0 | | 9.1 | | 7.8 | u |
| 50 | AIR FORCE PHYSICAL SECURITY SYSTEM | A | | | 16.9 | | 14.4 | | 27.0 | U |
| 51 | COMBAT TRAINING RANGES | A | | | 10.0 | | 12.8 | | 13.2 | U |
| 52 | MINIMUM ESSENTIAL EMERGENCY COMM NET | A | | | | | 11.7 | | 1.5 | u |

• ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE
 FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: **3080F** OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) | MILLION ⁹ OF DOLLARS | | | | | | S E C |
|--------------------------|--|------------|-------------------|---------------------------------|--------------|------------------|--------------|------------------|--------------|-------|
| | | | FY 1999 UNIT COST | FY 1997 QUANTITY | FY 1997 COST | FY 1998 QUANTITY | FY 1998 COST | FY 1999 QUANTITY | FY 1999 COST | |
| 53 | FORCE PROTECTION/ANTI-TERRORISM | A | | | 99.8 | | 53.1 | | | U |
| 54 | C3 COUNTERMEASURE3 | A | | | 9.1 | | 12.6 | | 10.2 | u |
| 55 | JOINT SURVEILLANCE SYSTEM | A | | | | | | | 11.1 | u |
| 56 | BASE LEVEL DATA AUTO PROGRAM | A | | | 23.1 | | 45.2 | | 28.9 | u |
| 57 | THEATER BATTLE MGT C2 sys | A | | | 46.1 | | 46.9 | | 44.7 | u |
| AIR FORCE COMMUNICATIONS | | | | | | | | | | |
| 58 | INFORMATION TRANSMISSION systems | A | | | 12.1 | | 11.0 | | 10.8 | u |
| 59 | BASE INFORMATION INFRASTRUCTURE | A | | | 83.1 | | 110.1 | | 159.4 | u |
| 60 | USCENTCOM | A | | | 3.5 | | 3.9 | | 4.5 | u |
| 61 | AUTOMATED TELECOMMUNICATION9 PRG | A | | | 18.4 | | 15.5 | | 14.9 | u |
| DISA PROGRAMS | | | | | | | | | | |
| 62 | NAVSTAR GPS SPACE | A | | | 1.8 | | 1.5 | | 1.4 | u |
| 63 | DEFENSE METEOROLOGICAL SAT PROG SPAC | A | | | 10.0 | | 11.4 | | 10.7 | u |
| 64 | NUDET DETECTION SYS (NDS) SPACE | A | | | 2.1 | | 7.8 | | 1.3 | u |
| 65 | AF SATELLITE CONTROL NETWORK SPACE | A | | | 7.2 | | 22.5 | | 26.0 | U |
| 66 | EASTERN/WESTERN RANGE I&M SPACE | A | | | 99.2 | | 79.3 | | 93.8 | u |
| 67 | MILSATCOM SPACE | A | | | 58.4 | | 18.0 | | 28.2 | U |

* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE
 FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM | NOMENCLATURE | IDENT CODE | (DOLLARS) | MILLIONS OF DOLLARS | | | | | | S E C |
|--|-------------------|-----------------------------|------------|-------------------|---------------------|-------|----------|-------|----------|-------|-------|
| | | | | FY 1999 UNIT COST | FY 1997 | | FY 1998 | | FY 1999 | | |
| | | | | | QUANTITY | COST | QUANTITY | COST | QUANTITY | COST | |
| 68 | SPACE MODS | SPACE ORGANIZATION AND BASE | A | | | 24.8 | | 20.0 | | 7.9 | u |
| 69 | TACTICAL | C-E EQUIPMENT | A | | | 62.5 | | 32.7 | | 31.1 | u |
| 70 | COMBAT SURVIVOR/ | EVADER LOCATER RADIO | B | | | 2.9 | | 5.6 | | 13.8 | u |
| 71 | RADIO | EQUIPMENT | A | | | 12.3 | | 18.9 | | 12.2 | u |
| 72 | TV | EQUIPMENT (AFRTV) | A | | | 2.4 | | 2.1 | | 2.0 | u |
| 73 | CCTV/AUDIOVISUAL | EQUIPMENT | A | | | 4.1 | | 3.9 | | 3.2 | U |
| 74 | BASE COMM | INFRASTRUCTURE | A | | | 27.4 | | 30.1 | | 27.8 | U |
| 75 | CAP COM & | ELECT | A | | | | | .6 | | .4 | u |
| 76 | ITEMS LESS THAN | \$2,000,000 | A | | | 9.8 | | 0.8 | | 7.1 | u |
| MODIFICATIONS | | | | | | | | | | | |
| 77 | COMM ELECT | MODS | A | | | 24.9 | | 51.9 | | 57.7 | u |
| TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT | | | | | | 861.5 | | 870.3 | | 865.0 | |
| BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT | | | | | | | | | | | |
| TEST EQUIPMENT | | | | | | | | | | | |
| 78 | BASE/ALC | CALIBRATION PACKAGE | A | | | 14.2 | | 11.0 | | 11.0 | u |
| 79 | PRIMARY STANDARDS | LABORATORY PACKAGE | A | | | 1.3 | | 1.1 | | 1.1 | u |

* ITEM9 UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: **3080F OTHER** PROCUREMENT, AIR FORCE

DATE: **FEB** 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) | | | | MILLIONS OF DOLLARS | | | | S E C | |
|---------|--|------------|-------------------|------------------|--------------|------------------|---------------------|------------------|--|--|-------|---|
| | | | FY 1999 UNIT COST | FY 1997 QUANTITY | FY 1998 COST | FY 1998 QUANTITY | FY 1999 COST | FY 1999 QUANTITY | | | | |
| 80 | ITEMS LESS THAN \$2,000,000 | A | | | 12.6 | | | 7.6 | | | 6.7 | U |
| | PERSONAL SAFETY AND RESCUE EQUIP | | | | | | | | | | | |
| 81 | NIGHT VISION GOGGLES | A | | | 6.0 | | | 3.6 | | | 8.1 | u |
| 82 | BREATHING APPARATUS TWO HOUR | A | | | 1.3 | | | | | | | U |
| 83 | UNIVERSAL WATER ACTIVATED REL SYS | B | | | .4 | | | | | | | U |
| 84 | ITEMS LESS THAN \$2,000,000 | A | | | 6.1 | | | 3.4 | | | 3.5 | u |
| | DEPOT PLANT + MATERIALS HANDLING EQ | | | | | | | | | | | |
| 85 | MECHANIZED MATERIAL HANDLING EQUIP | A | | | 8.9 | | | 10.9 | | | 14.5 | u |
| 86 | ITEMS LESS THAN \$2,000,000 | A | | | 5.5 | | | 4.0 | | | 4.1 | u |
| | ELECTRICAL EQUIPMENT | | | | | | | | | | | |
| 87 | GENERATORS-MOBILE ELECTRIC | A | | | .5 | | | 3.6 | | | 1.4 | u |
| 88 | FLOODLIGHTS | A | | | | | | 6.2 | | | 10.7 | u |
| 69 | ITEMS LESS THAN \$2,000,000 | A | | | 2.5 | | | 3.9 | | | 2.4 | U |
| | BASE SUPPORT EQUIPMENT | | | | | | | | | | | |
| 90 | BASE PROCURED EQUIPMENT | A | | | 5.6 | | | 6.7 | | | 5.6 | U |
| 91 | MEDICAL/DENTAL EQUIPMENT | A | | | 15.2 | | | 10.5 | | | 8.7 | u |
| 92 | ENVIRONMENTAL PROJECTS | A | | | .9 | | | 1.0 | | | 1.0 | u |

* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE
FY 1999 **PROCUREMENT** PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) | | MILLIONS OF DOLLARS | | | | S E C |
|---------|---|------------|-------------------|----------------------------|----------------------------|----------------------------|------|-------------|-------|
| | | | FY 1999 UNIT COST | -----FY 1997----- QUANTITY | -----FY 1998----- QUANTITY | -----FY 1999----- QUANTITY | COST | COST | |
| 93 | AIR BASE OPERABILITY | B | | 2.9 | 4.1 | | | 5.4 | u |
| 94 | PALLET AIR CARGO | A | | 0.2 | | 1.2 | | 2.0 | u |
| 95 | NET ASSEMBLY, 108"X80" | A | | 1.9 | | 3.0 | | 1.9 | u |
| 96 | BLADDERS FUEL | A | | 1.9 | | 2.2 | | 1.3 | u |
| 97 | AERIAL BULK FUEL DELIVERY SYSTEM | A | | .5 | | 2.0 | | 4.3 | u |
| 98 | PHOTOGRAPHIC EQUIPMENT | A | | 6.1 | | 5.9 | | 5.6 | U |
| 99 | PRODUCTIVITY INVESTMENTS | A | | 10.0 | | 10.7 | | 12.3 | U |
| 100 | MOBILITY EQUIPMENT | A | | 21.5 | | 24.0 | | 36.0 | U |
| 101 | DEPLOYMENT/EMPLOYMENT CONTAINERS | A | | 1.9 | | 2.0 | | 2.3 | U |
| 102 | AIR CONDITIONERS | A | | 1.2 | | 9.6 | | 10.7 | u |
| 103 | ITEMS LESS THAN \$2,000,000 | A | | 6.6 | | 11.1 | | 16.8 | U |
| | SPECIAL SUPPORT PROJECTS | | | | | | | | |
| 104 | INTELLIGENCE PRODUCTION ACTIVITY | A | | 60.3 | | 49.1 | | 72.6 | U |
| 105 | TECH SURV COUNTERMEASURES EQ | A | | 1.2 | | 2.0 | | 2.0 | u |
| 106 | DARP | A | | 76.9 | | | | | U |
| 107 | DARP RC135 | A | | | | 12.5 | | 12.7 | U |
| 108 | DARP, MRIGS | A | | | | 64.8 | | 79.6 | U |

* ITEMS UNDER \$50,000

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION; **3080F OTHER** PROCUREMENT, AIR FORCE

DATE: FEB 1998

| | | MILLIONS OF DOLLARS | | | | | | |
|--|----------------------------------|---------------------|-------------------|----------|----------------|----------------|----------------|--------------|
| LINE NO | ITEM NOMENCLATURE | IDENT CODE w-m-- | (DOLLARS) | | | | S E | |
| | | | FY 1999 UNIT COST | QUANTITY | FY 1997 COST | FY 1998 COST | | FY 1999 COST |
| 109 | SELECTED ACTIVITIES | A | | | 4504.3 | 4920.5 | 5322.6 | U |
| 110 | SPECIAL UPDATE PROGRAM | A | | | 170.0 | 170.8 | 179.8 | u |
| 111 | INDUSTRIAL PREPAREDNESS | A | | | 1.3 | 1.1 | 1.2 | u |
| 112 | MODIFICATIONS | A | | | | .2 | .2 | u |
| 113 | FIRST DESTINATION TRANSPORTATION | A | | | 13.1 | 14.3 | 16.4 | U |
| TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT | | | | | 4,970.9 | 5,384.6 | 5,864.6 | |
| BUDGET ACTIVITY 05: SPARE AND REPAIR PARTS | | | | | | | | |
| SPARES AND REPAIR PARTS | | | | | | | | |
| 114 | SPARES AND REPAIR PARTS | A | | | 36.5 | 54.5 | 52.7 | u |
| TOTAL SPARE AND REPAIR PARTS | | | | | 36.5 | 54.5 | 52.7 | |
| TOTAL OTHER PROCUREMENT, AIR FORCE | | | | | 5,970.9 | 6,484.7 | 6,974.4 | |

* ITEMS UNDER \$50,000

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PAGE F-31

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1999

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEAR 1999

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: SEDAN, 4 DR 4X2 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 153 | 71 | 54 | 115 | 353 | 77 | 37 |
| COST <small>(in thousands)</small> | | \$2,154 | \$1,174 | \$ 780 | \$1,568 | \$4,530 | \$1,094 | \$ 680 |
| <p>DESCRIPTION: This vehicle utilizes a four or six cylinder, cost effective, gasoline or compressed natural gas (CNG) engine. It is used to transport personnel in performance of official duties. The total Air Force FY99 procurement requirement is 1,269 against an inventory objective of 2,269.</p> | | | | | | | | |

UNCLASSIFIED

| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|--------------------------------------|------------------------|----------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: SEDAN, 4 DR 4X2 | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| COMPACT US (BPAC 1012) | | | | | | | | | | |
| FY97 | 88 | 12 | AFMC/WR-ALC | OPTION | GSA (GMC) LANSING, MI | FEB 97 | MAY 97 | | | |
| FY98 | 24 | 12 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 98 | MAY 98 | YES | | |
| FY99 | 28 | 12 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | MAY 99 | YES | | |
| COMPACT JAPAN (BPAC 1014) | | | | | | | | | | |
| FY97 | 4 | 10 | AFMC/WR-ALC | MIPR | NAVY (MITSUBISHI) JAPAN | JUN 97 | JUN 97 | | | |
| FY98 | 4 | 13 | AFMC/WR-ALC | MIPR | NAVY (UNKNOWN) | JUN 98 | JUN 98 | YES | | |
| MIDSIZE FRG (BPAC 101C) | | | | | | | | | | |
| FY99 @ | 3 | 15 | AFMC/WR-ALC | MIPR | GSA (UNKNOWN) | APR 99 | SEP 99 | YES | | |
| MIDSIZE OSI KOREA (BPAC 101D) | | | | | | | | | | |
| FY98 | 1 | 22 | AFMC/WR-ALC | MIPR | NAVY (UNKOWN) KOREA | JUL 98 | JUN 98 | YES | | |
| COMPACT OSI OVERSEAS (BPAC 101F) | | | | | | | | | | |
| FY97 | 11 | 17 | AFMC/WR-ALC | FCA | OSI (FORD) GERMANY | MAR 97 | MAY 97 | | | |
| FY98 | 13 | 17 | AFMC/WR-ALC | FCA | OSI (UNKNOWN) | MAR 98 | MAY 98 | YES | | |
| FY99 | 13 | 17 | AFMC/WR-ALC | FCA | OSI (UNKNOWN) | MAR 99 | MAY 99 | YES | | |
| COMPACT US CNG (BPAC 101G) | | | | | | | | | | |
| FY99 # | 3 | 14 | AFMC/WR-ALC | MIPR | GSA (UNKOWN) | APR 99 | SEP 99 | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|------------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: SEDAN, 4 DR 4X2 | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| COMPACT US BI-FUEL CNG (BPACT 101H) | | | | | | | | | | |
| FY97 | 47 | 19 | AFMC/WR-ALC | MIPR | GSA (FORD) KANSAS CITY MO | OCT 96 | MAR 97 | | | |
| FY98 | 27 | 19 | AFMC/WR-ALC | OPTION | GSA (UNKOWN) | FEB 98 | JUL 98 | YES | | |
| FY99 | 7 | 19 | AFMC/WR-ALC | OPTION | GSA (UNKOWN) | FEB 99 | JUL 99 | YES | | |
| | | | | | | | | | | |
| SUB-COMPACT US (CHASE) (BPACT 101J) | | | | | | | | | | |
| FY97 | 3 | 18 | AFMC/WR-ALC | OPTION | GSA (GMC) LANSING, MI | JAN 97 | MAY 79 | | | |
| FY98 | 2 | 19 | AFMC/WR-ALC | OPTION | GSA (GMC) LANSING, MI | JAN 98 | MAY 98 | | | |
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| REMARKS: @ First time buy of Midsize Sedan in Germany. # First time buy of Compact CNG. | | | | | | | | | | |

UNCLASSIFIED

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|---|--|----------------|---------------|--|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: STATION WAGON, 4X2 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 57 | 5 | 22 | 38 | 183 | 24 | 16 |
| COST <small>(in thousands)</small> | | \$ 994 | \$ 78 | \$ 413 | \$ 772 | \$3,496 | \$ 516 | \$ 326 |
| <p>DESCRIPTION: This is a commercial, compact size vehicle equipped with a fuel efficient gasoline engine. It is used for transportation of personnel and light cargo. It also provides quick response transportation for alert force personnel supporting missile/aircraft launch. The total Air Force FY 99 procurement requirement is 623 against an inventory objective of 959.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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|--|-----------------------------------|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | P-1 NOMENCLATURE: BUSES |
|--|-----------------------------------|

| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|--|----------------|---------------|---------------|---------------|----------------|---------------|---------------|
| QUANTITY | | 91 | 23 | 92 | 112 | 268 | 218 | 16 |
| COST (in thousands) | | \$4,810 | \$1,903 | \$5,174 | \$6,590 | \$17,519 | \$13,953 | \$1,388 |

DESCRIPTION:
 These commercial buses are bought in a variety of sizes, ranging from 14 passenger to 52 passenger capacity. They equip our bases with a fuel efficient diesel vehicle for base shuttle bus operations and for transporting large aircraft crews together with their related flight gear. Air Force buses are also used to transport dependent school children and, during military exercises, large groups of personnel. In USAFE and PACAF, buses are procured with kits which can convert the regular bus to an ambulance bus, negating the requirement to buy a separate bus for medical evacuation (MED EVAC) operations. The total Air Force FY99 procurement requirement is 1,158 against an inventory objective of 2,228.

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| | P-1 ITEM: 3 | | PAGE NO: 8 | |
|--|--------------------|--|-------------------|--|

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|--------------------|----------------------------|---------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: BUSES | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 16 PASSENGER (BPAC 1243) | | | | | | | | | | |
| FY97 | 9 | 39 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | DEC 96 | APR 97 | | | |
| FY98 | 1 | 40 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | FEB 98 | JUN 98 | | | |
| FY99 | 7 | 41 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | FEB 99 | JUN 99 | YES | | |
| 16 PASSENGER JAPAN (BPAC 1244) | | | | | | | | | | |
| FY98 @ | 2 | 43 | AFMC/WR-ALC | FCA/JPN | PACAF (UNKNOWN) | APR 98 | OCT 98 | YES | | |
| FY99 | 1 | 44 | AFMC/WR-ALC | FCA/JPN | PACAF (UNKNOWN) | APR 99 | OCT 99 | YES | | |
| 23 PASSENGER (BPAC 1245) | | | | | | | | | | |
| FY96 | 1 | 40 | AFMC/WR-ALC | ID/IQ | GSA (ELDORADO) SALINA, KS | JUN 96 | OCT 96 | | | |
| FY98 | 1 | 42 | AFMC/WR-ALC | ID/IQ | GSA (ELDORADO) SALINA, KS | JUN 98 | OCT 98 | YES | | |
| FY99 | 1 | 43 | AFMC/WR-ALC | ID/IQ | GSA (ELDORADO) SALINA, KS | JUN 99 | OCT 99 | YES | | |
| 28 PASSENGER TRANSIT (BPAC 124A) | | | | | | | | | | |
| FY97 | 34 | 56 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | DEC 96 | MAR 97 | | | |
| FY98 | 5 | 57 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | FEB 98 | MAY 98 | | | |
| FY99 | 61 | 59 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | FEB 99 | MAY 99 | TES | | |
| 44 PASSENGER INTRACITY (BPAC 124K) | | | | | | | | | | |
| | | | P-1 ITEM: 3 | | | | PAGE NO: 10 | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | |
|---|------|-----------|-----------------|----------------------------|-----------------------------------|------------|------------------------|------------------------|----------------------|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: BUSES | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY97 | 1 | 86 | AFMC/WR-ALC | ID/IQ | GSA (THOMAS BUILT) HIGH POINT, NC | DEC 96 | MAY 97 | | |
| FY98 | 1 | 88 | AFMC/WR-ALC | ID/IQ | GSA (THOMAS BUILT) HIGH POINT, NC | DEC 97 | MAY 98 | | |
| 44 PASSENGER TRANSIT (BPAC 124L) | | | | | | | | | |
| FY97 | 47 | 52 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | DEC 96 | APR 97 | | |
| FY98 | 7 | 57* | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | FEB 98 | JUN 98 | | |
| FY99 | 21 | 55 | AFMC/WR-ALC | ID/IQ | GSA (BLUEBIRD) FT VALLEY, GA | FEB 99 | JUN 99 | YES | |
| 44 PASSENGER DEDICATED CNG (BPAC 124P) | | | | | | | | | |
| FY99 | 1 | 81 | AFMC/WR-ALC | ID/IQ | GSA (UNKNOWN) | APR 99 | OCT 99 | YES | |
| 45 PASSENGER CNG (BPAC 124R) | | | | | | | | | |
| FY98 | 6 | 160# | AFMC/WR-ALC | ID/IQ | GSA (UNKOWN) | MAR 98 | JUN98 | YES | |
| REMARKS: | | | | | | | | | |
| @ First time buy of 16 passenger bus in Japan. * Based on FY97 contract price, FY98 is over funded. Below threshold reprogramming to cover price increase on other vehicles may be possible. # First time buy of 45 passenger buses in CNG configuration. | | | | | | | | | |

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|--|--|----------------|---------------|--|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: AMBULANCES | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 3 | 3 | 4 | 9 | 69 | 91 | 5 |
| COST (in thousands) | | \$ 220 | \$ 247 | \$ 306 | \$ 619 | \$4,780 | \$6,244 | \$ 419 |
| <p>DESCRIPTION: This line item includes both bus ambulances and modular ambulances. Bus ambulances are used in Medical Evacuation (MED EVAC) operations and are capable of transporting 12 litter patients from aircraft to hospitals. Modular ambulances are standard commercial ambulances in both two and four wheel drive configurations. They also perform MED EVAC as well as movement of patients under field conditions, aircraft crash rescue operations, and both emergency and routine transportation of patients to and from medical facilities and hospitals. Modular ambulances have eight cylinder engines, automatic transmissions, power steering and brakes and medical life support systems. Capacity is three litter patients or eight seated patients. The total FY99 procurement requirement is 813 against an inventory objective of 1,297.</p> | | | | | | | | |

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|--|--|----------------|---------------|---|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: LAW ENFORCEMENT VEHICLE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 199 | 85 | 95 | 71 | 86 | 12 | 5 |
| COST (in thousands) | | \$3,430 | \$1,485 | \$1,817 | \$1,379 | \$1,647 | \$ 266 | \$ 117 |
| DESCRIPTION: This is a commercial, gasoline engine powered sedan equipped with a heavy duty component package for law enforcement. It is used in security and law enforcement functions. This is a high mileage vehicle with a four year life expectancy. The total Air Force FY99 procurement requirement is 432 against an inventory objective of 799. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: ARMORED SEDAN | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| COST (in thousands) | | \$ 287 | \$ 228 | \$ 239 | \$ 246 | \$ 255 | \$ 262 | \$ 269 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Air Force Office of Special Investigations (AFOSI) has responsibility for non-tactical Fully Armored Vehicles (FAVs). The FAVs are used during protective service operations to transport permanent party, visiting senior US military, and civilian personnel within designated high terrorist threat areas (e.g., In-theater USAF and NATO command officials, the Secretary of Defense, Secretary of the Air Force, Chief of Staff of the Air Force, and as augment support of the President of the United States).</p> <p>2. Terrorist threats are investigated and validated by US/foreign, federal and military (e.g., CIA and DoD) counter-intelligence and anti-terrorism experts. Threat assessments and vulnerability surveys are prepared to determine FAV requirements.</p> <p>3. Seven of the FAVs on hand have exceeded their life expectancy of eight years or 72,000 miles. Factory reconditioning of such things as engines, drive trains, and major components by Mercedes-Benz, has extended vehicle life by 4-5 years. However, the protective integrity of both the polycarbonate transparent and metal armor cannot be guaranteed by the manufacturer for an additional reconditioning. Therefore, it is neither economically feasible nor safe to upgrade pre-1987 FAVs a second time.</p> <p>4. Currently, 8 of AFOSI's 13 FAVs (1987 or newer) meet current DoD FAV ballistic standards. New technology introduced during the last 5 years has significantly increased ballistic defeat capability and overall safety of vehicle occupants through use of enhanced armoring materials/techniques such as polycarbonate transparent armor and production/assembly. Additional improvements have been made on anti-lock braking systems, driver/passenger restraint devices, and side impact devices.</p> <p>5. FY99 funding continues the USAF FAV replacement program. A replacement buy is essential to ensure all principals are provided optimum protection against terrorist activities. The total Air Force FY99 procurement requirement is 1 against an inventory objective of 12.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, CARGO-UTILITY, 3/4T, 4X4 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 332 | 159 | 225 | 103 | 92 | 211 | 578 |
| COST (in thousands) | | \$8,574 | \$4,252 | \$6,160 | \$2,988 | \$2,627 | \$6,163 | \$17,094 |
| DESCRIPTION: This is a commercial, four door, six passenger, cargo truck which equips our forces with a four-wheel-drive, automatic transmission vehicle to permit crews and cargo to travel together to off-highway sites. This truck is used by security police in a force protection role. It is also used in direct operational support of strategic weapons systems (silo crew changes), and fighter and bomber aircraft crews. Four-wheel-drive capability is critical to off-highway winter operations to isolated missile, communications, weather, and radar sites. It is also used by civil engineering crews in support of these locations; the six passenger capacity permits the use of one vehicle instead of two for trips to sites that are up to 150 miles from a base. The total Air Force FY99 procurement requirement is 1,923 against an inventory objective of 3,952. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
|---|-------------------------------|

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| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | P-1 NOMENCLATURE: TRUCK, CARGO-UTILITY, 1/2T, 4X2 |
|--|---|

| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|--|----------------|---------------|---------------|---------------|----------------|---------------|---------------|
| QUANTITY | | 266 | 116 | 104 | 142 | 135 | 301 | 212 |
| COST (in thousands) | | \$6,098 | \$2,764 | \$2,612 | \$3,783 | \$3,598 | \$7,951 | \$5,832 |

DESCRIPTION:
 This is a commercial, two-wheel-drive, cargo truck with four doors and two full width seats which provide for a crew of six personnel. This vehicle has a six foot pickup body with a tailgate and an automatic transmission. The Air Force uses this truck to transport personnel and light cargo. The six passenger feature enables the work crew and their material to travel together, precluding the need for a trailer or second vehicle. It is used in direct support of weapons systems such as missiles, strategic aircraft, and tactical fighter aircraft. This vehicle is generally operated on a base where off-highway, four-wheel-drive capability is not required. The total Air Force FY99 procurement requirement is 1,598 against an inventory objective of 3,506.

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| | P-1 ITEM: 8 | | PAGE NO: 22 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|--|------------------------|------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK, CARGO-UTILITY, 1/2T, 4X2 | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| US (BPAC 2071) | | | | | | | | | | |
| FY97 | 5 | 23 | AFMC/WR-ALC | OPTION | GSA (CARTER CHEVY) FLINT, MI | FEB 97 | JUN 97 | | | |
| FY97 | 178 | 24 | AFMC/WR-ALC | MIPR | GSA (CARTER CHEVY) FLINT, MI | SEP 97 | JAN 98 | | | |
| FY98 | 111 | 24 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 98 | JUN 98 | YES | | |
| FY99 | 95 | 24 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | JUN 99 | YES | | |
| FRG (BPAC 2072) | | | | | | | | | | |
| FY97 | 39 | 20 | AFMC/WR-ALC | FCA | ARMY (VW) GERMANY | AUG 97 | JAN 98 | | | |
| ITALY (BPAC 2073) | | | | | | | | | | |
| FY97 | 39 | 23 | AFMC/WR-ALC | FCA | 16AF (FIAT) ITALY | AUG 97 | FEB 98 | | | |
| JAPAN (BPAC 2074) | | | | | | | | | | |
| FY97 | 2 | 12 | AFMC/WR-ALC | MIPR | NAVY (TOYOTA) JAPAN | AUG 97 | DEC 97 | | | |
| FY98 | 5 | 13 | AFMC/WR-ALC | MIPR | NAVY (UNKNOWN) | AUG 98 | DEC 98 | YES | | |
| REMARKS: | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, PICKUP, 1/2T, 4X2 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 557 | 333 | 222 | 191 | 134 | 226 | 632 |
| COST (in thousands) | | \$7,688 | \$5,834 | \$3,379 | \$3,165 | \$2,218 | \$3,609 | \$9,894 |
| DESCRIPTION: This is a standard commercial one-half ton pickup truck with a six cylinder engine, two-wheel-drive, and automatic transmission. It is the basic light cargo delivery and personnel transport vehicle in the Air Force inventory. This vehicle is used as an expedite/light cargo vehicle by Supply, Security Police, Hospital, and virtually every flight line unit. The total Air Force FY99 procurement requirement is 3,919 against an inventory objective of 5,975. | | | | | | | | |

UNCLASSIFIED

| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|---|------------------------|--------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK, PICKUP, 1/2T, 4X2 | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| US (BPAC 2111) | | | | | | | | | | |
| FY97 | 452 | 13 | AFMC/WR-ALC | OPTION | GSA (GRANDE FORD) AUSTIN, TX | FEB 97 | JUN 97 | | | |
| FY97 | 5 | 15 | AFMC/WR-ALC | OPTION | GSA (CARTER CHEVY) PONTIAC, MI | SEP 97 | DEC 97 | | | |
| FY97 | 2 | 15 | AFMC/WR-ALC | OPTION | GSA (NORTHSIDE FORD) WAYNE, MI | OCT 97 | DEC 97 | | | |
| FY98 | 93 | 14 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 98 | AUG 98 | YES | | |
| FY99 | 185 | 14 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | AUG 99 | YES | | |
| FRG (BPAC 2112) | | | | | | | | | | |
| FY97 | 25 | 17 | AFMC/WR-ALC | FCA | ARMY (VW) GERMANY | MAY 97 | SEP 97 | | | |
| ITALY (2114) | | | | | | | | | | |
| FY97 | 25 | 10 | AFMC/WR-ALC | FCA | 16AF (FIAT) ITALY | AUG 97 | FEB 98 | | | |
| FY98 | 26 | 9 @ | AFMC/WR-ALC | FCA | 16AF (UNKNOWN) | JUN 98 | DEC 98 | YES | | |
| KOREA (2117) | | | | | | | | | | |
| FY97 | 9 | 8 | AFMC/WR-ALC | FCA | AF (KIA MOTORS) KOREA | JAN 97 | JUN 97 | | | |
| REMARKS: @ Based on FY97 contract price, FY98 is underfunded. Quantity reduction or below threshold reprogramming to cover the price increase may be necessary. | | | | | | | | | | |

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| | P-1 ITEM: 9 | | PAGE NO: 28 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|---|------------------------|--------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK, PICKUP, 1/2T, 4X2 | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| US BI-FUEL CNG (BPAC 2118) | | | | | | | | | | |
| FY97 | 39 | 21 | AFMC/WR-ALC | MIPR | GSA (GMC) PONTIAC, MI | MAR 97 | JUN 97 | | | |
| FY98 | 213 | 20 @ | AFMC/WR-ALC | MIPR | GSA (UNKNOWN) | MAR 98 | JUN 98 | YES | | |
| FY99 | 36 | 22 | AFMC/WR-ALC | MIPR | GSA (UNKNOWN) | MAR 99 | JUN 99 | YES | | |
| US DEDICATED CNG (BPAC 2119) | | | | | | | | | | |
| FY99 # | 1 | 17 | AFMC/WR-ALC | MIPR | GSA (UNKNOWN) | APR 99 | SEP 99 | YES | | |
| US BI-FUEL LPG/GAS (BPAC 211A) | | | | | | | | | | |
| FY98 # | 1 | 18 | AFMC/WR-ALC | MIPR | GSA (UNKNOWN) | FEB 98 | SEP 98 | YES | | |
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| REMARKS: @ Based on FY97 contract price, FY98 is underfunded. Quantity reduction or below threshold reprogramming to cover the price increase may be necessary. # First time buy of ½ ton pickup trucks in this alternative fuel configuration. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, PICKUP, COMPACT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 489 | 168 | 196 | 222 | 82 | 148 | 833 |
| COST (in thousands) | | \$5,585 | \$1,989 | \$2,445 | \$3,064 | \$1,130 | \$2,047 | \$10,974 |
| DESCRIPTION: This is a commercial, two-wheel-drive, compact pickup truck, used by virtually all base activities to transport light cargo and personnel. It is part of an Air Force program to selectively downsize to more fuel efficient vehicles without causing an adverse mission impact. The total Air Force FY99 procurement requirement is 2,978 against an inventory objective of 6,288. | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|---|------------------------|-------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK, PICKUP, COMPACT | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| US (BPAC 2121) | | | | | | | | | | |
| FY97 | 477 | 11 | AFMC/WR-ALC | OPTION | GSA (GRANDE FORD) L'VILLE, KY | FEB 97 | MAY 97 | | | |
| FY97 | 3 | 12 | AFMC/WR-ALC | MIPR | GSA (GRANDE FORD) L'VILLE, KY | SEP 97 | DEC 97 | | | |
| FY98 | 158 | 12 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 98 | JUL 98 | YES | | |
| FY99 | 170 | 12 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | JUL 99 | YES | | |
| JAPAN (BPAC 2122) | | | | | | | | | | |
| FY97 | 5 | 11 | AFMC/WR-ALC | MIPR | NAVY (TOYOTA) JAPAN | JUN 97 | AUG 97 | | | |
| FY98 | 10 | 11 | AFMC/WR-ALC | MIPR | NAVY (UNKNOWN) | JUN 98 | AUG 98 | YES | | |
| US BI-FUEL CNG/GAS (BPAC 2124) | | | | | | | | | | |
| FY99@ | 22 | 17 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | JUL 99 | YES | | |
| KOREA (BPAC 2125) | | | | | | | | | | |
| FY97 | 4 | 9 | AFMC/WR-ALC | FCA | PACAF (KIA MOTORS) KOREA | FEB 97 | MAR 97 | | | |
| US DEDICATED CNG (BPAC 2126) | | | | | | | | | | |
| FY99 @ | 4 | 14 | AFMC/WR-ALC | FCA | GSA (UNKNOWN) | FEB 99 | JUN 99 | YES | | |
| REMARKS: @ First time buy in this alternative fuel configuration. GSA will award basic contract in FY98. | | | | | | | | | | |

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| | P-1 ITEM: 10 | | PAGE NO: 32 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK MULTI-STOP 1TON 4X2 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 420 | 302 | 315 | 201 | 99 | 92 | 234 |
| COST (in thousands) | | \$11,159 | \$8,203 | \$8,708 | \$5,701 | \$2,871 | \$2,677 | \$7,122 |
| DESCRIPTION: This family group consists of commercial panel trucks with sliding front doors, double rear doors, and delivery vans with cut-off cabs and full width rear doors with windows. Both trucks are two wheel drive, automatic transmission, and are powered by a diesel engine. They are used for light cargo transport, mobile post offices, and air crew personnel transport. They are used extensively on the flight line to support aircraft maintenance and by civil engineers in base and airfield maintenance. The total Air Force FY99 procurement requirement is 4,667 against an inventory objective of 6,854. | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|--|--------------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, MULTI-STOP, 1T, 4X2 | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| MULTI-STOP 1T US (BPAC 2161) | | | | | | | | | | |
| FY98 | 1 | 29 | AFMC/WR-ALC | OPTION | GSA (CARTER CHEVY) OKARCHE, OK | NOV 97 | MAY 98 | | | |
| | | | | | | | | | | |
| DELIVERY VAN US (BPAC 2165) | | | | | | | | | | |
| FY97 | 413 | 27 | AFMC/WR-ALC | OPTION | GSA (CARTER) OKARCHE, OK | FEB 97 | NOV 97 | | | |
| FY98 | 301 | 27 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 98 | SEP 98 | YES | | |
| FY99 | 307 | 28 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | SEP 99 | YES | | |
| | | | | | | | | | | |
| DELIVERY VAN JAPAN (BPAC 216C) | | | | | | | | | | |
| FY97 | 7 | 22 | AFMC/WR-ALC | FCA | NAVY (TOYOTA) JAPAN | JUN 97 | AUG 97 | | | |
| | | | | | | | | | | |
| FY99 | 8 | 23 | AFMC/WR-ALC | FCA | NAVY (UNKNOWN) | JAN 99 | AUG 99 | YES | | |
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| REMARKS: | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK CARRYALL | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 138 | 127 | 160 | 229 | 141 | 229 | 398 |
| COST (in thousands) | | \$2,597 | \$2,678 | \$3,898 | \$5,584 | \$3,723 | \$6,148 | \$10,222 |
| <p>DESCRIPTION: This vehicle family is defined as commercial carryalls, capable of carrying a minimum of seven passengers (including driver). It weighs between 4,700 and 8,600 pounds Gross Vehicle Weight (GVW), with a minimum of three windows on each side and double side and rear doors. The trucks are used by: Communications, Weather, and Radar Site personnel as a combination cargo and group personnel carrier; medical repair teams to transport test and repair equipment to hospitals and medical facilities; missile and aircraft alert crews; and in some instances, as airport transportation for personnel and their baggage. The truck is primarily purchased with an automatic transmission. All-terrain four-wheel-drive vehicles are also bought for use at remote sites. The total Air Force FY99 procurement requirement is 1,685 against an inventory objective of 3,882.</p> | | | | | | | | |

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| | P-1 ITEM: 12 | | PAGE NO: 36 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | |
|--|------|-----------|-----------------|-------------------------------------|--------------------------------|------------|------------------------|------------------------|----------------------|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK CARRYALL | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| US 9 PASSENGER 4X2 GAS (BPAC 2191) | | | | | | | | | |
| FY97 | 50 | 18 | AFMC/WR-ALC | OPTION | GSA (CHRYSLER) WINSOR, CD | FEB 97 | JUL 97 | | |
| FY97 | 2 | 18 | AFMC/WR-ALC | OPTION | GSA (CHRYSLER) WINSOR, CD | APR 97 | JUL 97 | | |
| FY97 | 2 | 19 | AFMC/WR-ALC | MIPR | GSA (CHEVROLET) LORAIN, OH | OCT 97 | DEC 97 | | |
| FY98 | 7 | 18@ | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 98 | MAY 98 | YES | |
| FY99 | 13 | 19 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | MAY 99 | YES | |
| | | | | | | | | | |
| JAPAN 9 PASSENGER 4X2 (BPAC 2195) | | | | | | | | | |
| FY93 | 10 | 14 | AFMC/WR-ALC | MIPR | PACAF (NISSAN) JAPAN | DEC 93 | FEB 94 | | |
| FY98 | 2 | 21 | AFMC/WR-ALC | MIPR | PACAF (UNKNOWN) | JUN 98 | AUG 98 | YES | |
| FY99 | 2 | 21 | AFMC/WR-ALC | MIPR | PACAF (UNKNOWN) | JUN 99 | AUG 99 | YES | |
| | | | | | | | | | |
| US 9 PASSENGER 4X4 GAS (BPAC 2196) | | | | | | | | | |
| FY97 | 7 | 27 | AFMC/WR-ALC | OPTION | GSA (CHEVROLET) JANESVILLE, WI | OCT 97 | MAY 98 | | |
| FY98 | 28 | 28 | AFMC/WR-ALC | OPTION | GSA(CHEVROLET) JANESVILLE, WI | DEC 97 | JUL 98 | | |
| FY99 | 14 | 28 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | SEP 99 | YES | |
| REMARKS: @ Based on FY97 Chevrolet Contract Price, FY98 is underfunded; quantity reduction may be necessary. | | | | | | | | | |

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| | P-1 ITEM: 12 | | PAGE NO: 38 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-------------------------------------|------------------------|--------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK CARRYALL | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| US 9 PASSENGER 4X2 GAS SUBURBAN TYPE (BPAC 2198) | | | | | | | | | | |
| FY96 | 4 | 27 | AFMC/WR-ALC | OPTION | GSA (CHEVROLET) JANESVILLE, WI | MAR 96 | NOV 96 | | | |
| FY98 | 4 | 28 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 98 | NOV 98 | YES | | |
| FY99 | 63 | 28 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | NOV 99 | YES | | |
| US 15 PASSENGER 4X2 GAS (BPAC 219A) | | | | | | | | | | |
| FY97 | 15 | 20 | AFMC/WR-ALC | OPTION | GSA (CHRYSLER) WINDSOR, CD | MAR 97 | JUN 97 | | | |
| FY97 | 4 | 20 | AFMC/WR-ALC | OPTION | GSA (CHRYSLER) WINDSOR, CD | APR 97 | JUL 97 | | | |
| FY98 | 6 | 21 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 98 | JUN 98 | YES | | |
| FY99 | 26 | 21 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | JUN 99 | YES | | |
| US 15 PASSENGER 4X2 BI-FUEL (BPAC 219E) | | | | | | | | | | |
| FY96 | 4 | 23 | AFMC/WR-ALC | OPTION | GSA (FORD) LORAIN, OH | APR 96 | SEP 96 | | | |
| FY98 | 4 | 24 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | APR 98 | SEP 98 | YES | | |
| FY99 | 9 | 25 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | APR 99 | SEP 99 | YES | | |
| REMARKS: | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-------------------------------------|------------------------|-----------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK CARRYALL | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| US 7 PASSENGER 4X2 GAS (BPAC 219H) | | | | | | | | | | |
| FY97 | 52 | 18 | AFMC/WR-ALC | OPTION | GSA (FORD) HAZELWOOD, MO | FEB 97 | JUN 97 | | | |
| FY97 | 1 | 20 | AFMC/WR-ALC | FCA | GSA (FORD) ONTARIO, CD | SEP 97 | DEC 97 | | | |
| FY98 | 69 | 18 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 98 | JUN 98 | YES | | |
| FY99 | 24 | 18 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | JUN 99 | YES | | |
| US 15 PASSENGER 4X2 CNG (BPAC 219Q) | | | | | | | | | | |
| FY97 | 5 | 23 | AFMC/WR-ALC | OPTION | GSA (FORD) LORAIN, OH | MAR 97 | MAY 97 | | | |
| FY99 | 1 | 24 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | MAY 99 | YES | | |
| US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S) | | | | | | | | | | |
| FY99 @ | 6 | 25 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | APR 99 | JUN 99 | YES | | |
| US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T) | | | | | | | | | | |
| FY98 @ | 7 | 25 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | APR 98 | JUN 98 | YES | | |
| FY99 | 2 | 25 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | APR 99 | JUN 99 | YES | | |
| REMARKS: @ First time buy in this alternative fuel configuration. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: HIGH MOBILITY VEHICLE (MYP) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 100 | 75 | 33 | 47 | 33 | 47 |
| COST (in thousands) | | \$ 0 | \$5,443 | \$4,172 | \$2,000 | \$3,000 | \$2,000 | \$3,000 |
| <p>DESCRIPTION: These utility trucks are High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), Model M-1097A2. These vehicles have the capability to operate in austere, adverse terrain locations. They are required to support security police, civil engineering, communications, and special operations airlift communities. The M-1097A2 is the work horse for the US Army; thus, with requirements to conduct combined joint operations, the M-1097A2 is also the logical choice for the Air Force, due to the commonality and compatibility of parts and maintenance support in a joint force environment. It is essential this vehicle be procured to support Air Force global commitments. The total Air Force FY99 procurement requirement is 1,223 against an inventory objective of 2,093.</p> | | | | | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | P-1 NOMENCLATURE: HIGH MOBILITY VEHICLE (MYP) | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 640 | 775 | 875 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 77 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 58 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 100 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 75 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | | (0) | (0) | |
| END OF YEAR ASSET POSITION | 775 | 875 | 950 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE 200 | | |
| PEACETIME STATIC LEVEL | 2,055 | BY2 REPLACE | | |
| WRM | 38 | VEH AUGMENT | | |
| OTHER | | | | |
| TOTAL INVENTORY OBJECTIVE | 2,093 | | | |
| REMARKS: | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK TRACTOR, OVER 5T | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 47 | 25 | 55 | 71 | 84 | 206 | 55 |
| COST <small>(in thousands)</small> | | \$3,488 | \$1,778 | \$3,611 | \$4,842 | \$6,518 | \$16,682 | \$4,277 |
| <p>DESCRIPTION: This family of vehicles is comprised of commercial, diesel engine driven truck tractors with capacities exceeding five tons. They are used for towing critical direct mission support equipment such as missile trailers and liquid oxygen and nitrogen trailers. The total Air Force FY99 procurement requirement is 1,472 against an inventory objective of 2,792.</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|---|------------------------|------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK TRACTOR, OVER 5T | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 44,500 GVW US (BPAC 2331) | | | | | | | | | | |
| FY97 | 6 | 70 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | DEC 96 | MAR 97 | | | |
| FY97 | 9 | 71 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | SEP 97 | DEC 97 | | | |
| FY98 | 5 | 72 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | DEC 97 | MAR 98 | | | |
| FY99 | 18 | 73 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | DEC 98 | MAR 99 | YES | | |
| 52,000 GVW US (BPAC 2334) | | | | | | | | | | |
| FY95 | 1 | 55 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | MAR 95 | JUL 95 | | | |
| FY99 | 15 | 60 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | DEC 98 | APR 99 | YES | | |
| 55,000 GVW US (BPAC 2335) | | | | | | | | | | |
| FY97 | 13 | 95 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | SEP 97 | FEB 98 | | | |
| FY98 | 2 | 74* | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | JAN 98 | APR 98 | | | |
| REMARKS: * Based on FY97 contract price, FY98 in under funded. Quantity reduction or below threshold reprogramming to cover the price increase may be required. | | | | | | | | | | |

UNCLASSIFIED

| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK TRACTOR, OVER 5T | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| MISSILE SUPPORT (BPAC 2336) | | | | | | | | | | |
| FY97 | 2 | 84 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | JAN 97 | APR 97 | | | |
| FY98 | 10 | 79 @ | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | FEB 98 | MAY 98 | YES | | |
| FY99 | 2 | 87 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | FEB 99 | MAY 99 | YES | | |
| | | | | | | | | | | |
| 39,500 GVW US (BPAC 2338) | | | | | | | | | | |
| FY97 | 17 | 58 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | DEC 96 | MAR 97 | | | |
| FY98 | 8 | 60 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | FEB 98 | MAY 98 | YES | | |
| FY99 | 20 | 61 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | FEB 99 | MAY 99 | YES | | |
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| REMARKS: @ FY98 is underfunded. Quantity reduction or below threshold reprogramming will be necessary. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, UTILITY | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 0 | 124 | 192 | 73 | 0 | 222 |
| COST (in thousands) | | \$ 0 | \$ 0 | \$3,347 | \$5,157 | \$2,139 | \$ 0 | \$6,374 |
| <p>DESCRIPTION: These commercial 4X4 utility trucks, 2 and 4 door, are purchased in a range of 4000 to 6000 pounds gross vehicle weight (GVW) in gasoline, diesel, and alternate fuel configurations. The primary use of these vehicles is for transporting personnel and light cargo. They provide adverse terrain and off-road capability. They are also used by security forces in missile fields as well as mobility forces. The total Air Force FY99 procurement requirement is 905 against an inventory objective of 1,381.</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-------------------------------------|------------------------|-----------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: TRUCK, UTILITY | | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| TRUCK UTILITY 4X4 4K US (BPAC 2521) | | | | | | | | | | |
| FY97 * | 19 | 23 | AFMC/WR-ALC | OPTION | GSA (FORD) LOUISVILLE, KY | MAR 97 | JUN 97 | | | |
| FY99 | 13 | 24 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | JUN 99 | YES | | |
| TRUCK UTILITY 4X4 6K US (BPAC 2522) | | | | | | | | | | |
| FY97 * | 23 | 27 | AFMC/WR-ALC | OPTION | GSA (CHEVROLET) JONESVILLE, WI | FEB 97 | MAY 97 | | | |
| FY99 | 95 | 28 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | FEB 99 | MAY 99 | YES | | |
| TRUCK UTILITY 4X4 4.5K 4 DR US (BPAC 2523) | | | | | | | | | | |
| FY97 * | 3 | 21 | AFMC/WR-ALC | OPTION | GSA (CHRYSLER) TOLEDO, OH | MAR 97 | JUN 97 | | | |
| FY99 | 5 | 22 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | JUN 99 | YES | | |
| TRUCK UTILITY 4X4 4K US BI-FUEL (BPAC 2526) | | | | | | | | | | |
| FY99 @ | 2 | 27 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | JUL 99 | YES | | |
| TRUCK UTILITY 4X4 4.5K US BI-FUEL (BPAC 252B) | | | | | | | | | | |
| FY99 @ | 2 | 28 | AFMC/WR-ALC | OPTION | GSA (UNKNOWN) | MAR 99 | JUL 99 | YES | | |
| REMARKS: | | | | | | | | | | |
| * Funded in Items Less than \$2,000,000, Cargo-Utility, P-1 Line #19. | | | | | | | | | | |
| @ First time buy in these alternative fuel configurations. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: CAP VEHICLES | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$ 760 | \$ 986 | \$ 744 | \$ 762 | \$ 779 | \$ 792 | \$ 800 |
| <p>DESCRIPTION: This is a continuing program for acquisition of vehicles to support Civil Air Patrol (CAP) activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counter drug, disaster relief, and training activities. FY99 continues funding procurement of vehicles to support day-to-day operations.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (CARGO-UTILITY) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$13,254 | \$4,255 | \$3,843 | \$11,693 | \$9,930 | \$8,065 | \$6,104 |
| DESCRIPTION: This P-1 line includes various cargo-utility vehicles with a procurement value of less than \$2,000,000 in FY99. See the next page for a list of these Code A items. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL) | | | | | DATE: FEBRUARY 1998 | |
|--|---------------|---------------|---|---------------|-------------------------------|---------|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: ITEMS LESS THAN 2,000,000 (CARGO-UTILITY) | | | |
| PROCUREMENT ITEMS | NSN | FY1998 | | FY1999 | | |
| | | QTY. | COST | QTY. | COST | |
| PICKUP TRUCK 3/4T 4X4 (BPAC 2992002) | 2320008116869 | | | 25 | \$ 455 | |
| PICKUP TRUCK COMPACT 4X4 (BPAC 2992003) | 2320010878223 | | | 4 | \$ 64 | |
| PICKUP TRUCK 3/4T 4X4 BI-FUEL (BPAC 2992011) | 2320008116869 | | | 1 | \$ 25 | |
| SEMI-TRAILER 60 TON LOW BED (BPAC 2993002) | 2330003492572 | | | 1 | \$ 30 | |
| SEMI-TRAILER 20 TON 25 FT (BPAC 2993003) | 2330008997527 | | | 1 | \$ 20 | |
| SEMI-TRAILER 20 TON 38 FT (BPAC 2993004) | 2330013819477 | | | 8 | \$ 167 | |
| SEMI-TRAILER 22 TON TILT DECK (BPAC 2993005) | 2330001383011 | | | 1 | \$ 21 | |
| SEMI-TRAILER 12 TON CARGO VAN (BPAC 2993006) | 2330008655443 | | | 1 | \$ 21 | |
| SEMI-TRAILER 35 TON LOW BED (BPAC 2993007) | 2330010516648 | | | 4 | \$ 108 | |
| SEMI-TRAILER 50 TON LOW BED (BPAC 2993008) | 2330010585911 | | | 2 | \$ 118 | |
| TRUCK VAN 24K GVW (BPAC 2994002) | 2320010397929 | | | 1 | \$ 35 | |
| M-1009 CUCV UTILITY (BPAC 2996024) | 2320011232665 | | | 33 | \$1,114 | |
| M-1008 CUCV CARGO (BPAC 2996025) | 2320011232671 | | | 7 | \$ 224 | |
| HIGH MOBILITY TRAILER (BPAC 2996036) | 2330013886662 | | | 5 | \$ 60 | |
| M-1083 5 TON CARGO TRUCK WITH WINCH (BPAC 2996038) | 2320013601895 | | | 3 | \$ 383 | |
| TRAILER 6 TON FLAT BED (BPAC 299A003) | 2330008775646 | | | 1 | \$ 6 | |
| SEMI-TRAILER 25 TON LOW BED (BPAC 299A007) | 2330008997526 | | | 1 | \$ 18 | |
| TRUCK 6 PASSENGER 4X2 DUAL REAR WHEELS (BPAC 299C010) | 2320010107351 | | | 19 | \$ 474 | |
| TRUCK 19K GVW 4X2 CARGO (BPAC 299C012) | 2320008790680 | | | 1 | \$ 39 | |
| TRUCK 2.5 TON 4X2 CARGO (BPAC 299C014) | 2320007023537 | | | 1 | \$ 28 | |
| TRUCK PANEL 4X2 (BPAC 299C018) | 2320010132754 | | | 19 | \$ 305 | |
| TRUCK 1 TON STAKE & PLATFORM JAPAN (BPAC 299C048) | 2320008518481 | | | 5 | \$ 58 | |
| TRUCK PANEL 4X2 CNG (BPAC 299C049) | 2320010132754 | | | 1 | \$ 19 | |
| TRUCK 10K GVW STAKE & PLATFORM JAPAN (BPAC 299C050) | 2320012507367 | | | 2 | \$ 51 | |
| TOTALS: | | | | | \$ 0 | \$3,843 |

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|---|--|----------------|---------------|--|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 110 | 124 | 279 | 360 | 826 | 239 | 191 |
| COST (in thousands) | | \$3,025 | \$3,837 | \$8,001 | \$10,542 | \$24,734 | \$7,372 | \$6,000 |
| <p>DESCRIPTION: This vehicle family is defined as diesel engine driven two and four wheel drive tow tractors necessary for towing aircraft and support equipment on the flightline. This tractor is capable of towing support equipment loads up to 40,000 pounds and aircraft up to 70,000 pounds. Most major commands, including PACAF, AFMC, USAFE, ANG, and ACC, operate this vehicle in direct mission support roles. Depending on terrain and mission requirements, there are various configuration options available. The total Air Force FY99 procurement requirement is 2,296 against an inventory objective of 4,383.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (SPECIAL PURPOSE) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$6,743 | \$5,722 | \$12,680 | \$14,229 | \$17,381 | \$16,923 | \$22,545 |
| <p>DESCRIPTION: This P-1 line includes various special purpose vehicles with a procurement value of less than \$2,000,000 in FY99. These vehicles are flightline, maintenance and facility support vehicles which are essential to base and flying operations. See list of code A items on next two pages.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL) | | | | | DATE: FEBRUARY 1998 | |
|---|---------------|--------|--|--------|------------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (SPECIAL PURPOSE) | | | |
| PROCUREMENT ITEMS | NSN | FY1998 | | FY1999 | | |
| | | QTY. | COST | QTY. | COST | |
| TRUCK REFUSE REAR HOIST (BPAC 3991002) | 2320008026354 | | | 1 | \$ 71 | |
| TRUCK REFUSE FRONT LOAD 24CY 6X4 (BPAC 3991003) | 2320008976837 | | | 2 | \$ 297 | |
| SEMI-TRAILER INDUSTRIAL WASTE (BPAC 3991005) | 2320004139620 | | | 1 | \$ 98 | |
| TRAILER 10 TON CABLE REEL (BPAC 3992003) | 2330004207079 | | | 5 | \$ 380 | |
| TRUCK TANK A-24(BPAC 3993001) | 2320000898979 | | | 2 | \$ 105 | |
| TRUCK LIQUID NITROGEN C-5A (BPAC 3993002) | 2320000999346 | | | 1 | \$ 231 | |
| TRUCK 1200 GALLON TANK 4X2 (BPAC 3993008) | 2320001776777 | | | 1 | \$ 63 | |
| TRUCK 1200 GALLON TANK 4X4 (BPAC 3993010) | 2320001776778 | | | 7 | \$ 524 | |
| SEMI-TRAILER 5000 GALLON TANK R-10 (BPAC 3994001) | 2330008441684 | | | 4 | \$ 532 | |
| SEMI-TRAILER 10 TON VAN (BPAC 3994107) | 2330008359037 | | | 1 | \$ 81 | |
| SEMI-TRAILER 38 CYLINDER COMPRESSED GAS (BPAC 3994018) | 2330009955613 | | | 2 | \$ 416 | |
| TRAILER 1 TON CHASSIS MB-1 (BPAC 3995001) | 2330005403715 | | | 10 | \$ 44 | |
| VAN 19K GVW REFRIGERATED (BPAC 3997001) | 2320007704467 | | | 3 | \$ 135 | |
| TRAILER 10 TON DOLLY CONVERTER (BPAC 3998006) | 2330005403924 | | | 3 | \$ 22 | |
| TRUCK HI-LIFT C-5 (BPAC 3999001) | 2320013056339 | | | 1 | \$ 124 | |
| TRUCK 9 TON HI-LIFT (BPAC 3999002) | 2320005403991 | | | 1 | \$ 111 | |
| TRUCK 3 TON HI-LIFT (BPAC 3999003) | 2320005403489 | | | 2 | \$ 169 | |
| TRUCK 6 PASSENGER TELEPHONE MAINTENANCE (BPAC 399A001) | 2320004512184 | | | 26 | \$ 705 | |
| TRUCK ¾ TON 4X4 MAINTENANCE BI-FUEL (BPAC 399A005) | 2320005411714 | | | 6 | \$ 178 | |
| TRUCK ¾ TON 4X4 MAINTENANCE GAS (BPAC 399A006) | 2320005411714 | | | 31 | \$ 786 | |
| TRUCK 45 FOOT HI-REACH MAINTENANCE (BPAC 399A007) | 2320009955610 | | | 4 | \$ 332 | |
| TRUCK 65 FOOT HI-REACH MAINTENANCE (BPAC 399A008) | 2320009897163 | | | 1 | \$ 123 | |
| TRUCK TELEPHONE MAINTENANCE STANDARD GAS (BPAC 399A010) | 2320008019193 | | | 21 | \$ 416 | |
| TRUCK TELEPHONE MAINTENANCE COMPACT GAS (BPAC 399A011) | 2320010939261 | | | 20 | \$ 342 | |
| TRUCK TELEPHONE MAINTENANCE S-90 (BPAC 399A012) | 2320004558464 | | | 3 | \$ 317 | |
| TRUCK TELEPHONE MAINTENANCE S-55 4X2 (BPAC 399A013) | 2320010307370 | | | 1 | \$ 144 | |
| TRUCK TELEPHONE MAINTENANCE 1 TON 4X2 (BPAC 399A021) | 2320013437375 | | | 35 | \$ 970 | |
| TRUCK TELEPHONE MAINTENANCE COMPACT 4X2 BI-FUEL (BPAC 399A023) | 2320010939261 | | | 8 | \$ 174 | |
| TRUCK TELEPHONE MAINTENANCE STANDARD 4X2 BI-FUEL (BPAC 399A024) | 2320008019193 | | | 4 | \$ 96 | |
| TRUCK HYDRANT HOSE R-12 (BPAC 399B002) | 2320011252481 | | | 12 | \$1,787 | |
| TRAILER MAINTENANCE RRR (BPAC 399B021) | 2330013088926 | | | 4 | \$ 80 | |
| MB-2 AIRCRAFT TOW TRACTOR (BPAC 399C002) | 1740001438464 | | | 6 | \$ 588 | |
| U-30 AIRCRAFT TOW TRACTOR (BPAC 399C003) | 1740013679485 | | | 2 | \$ 338 | |

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| | P-1 ITEM: 22 | | PAGE NO: 58 | |
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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A-IL) | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (SPECIAL PURPOSE) | | | |
| PROCUREMENT ITEMS | NSN | FY1998 | | FY1999 | | |
| | | QTY. | COST | QTY. | COST | |
| MB-4 AIRCRAFT TOW TRACTOR (BPAC 399C013) | 1740005807990 | | | 13 | \$ 869 | |
| TRUCK WRECKER 32K GVW 4X2 HYDRAULIC TYPE 1 (BPAC 399E004) | 2320013033010 | | | 10 | \$1,032 | |
| TOTALS: | | | \$ 0 | | \$12,680 | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK CRASH P-19 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 7 | 13 | 10 | 22 | 40 | 16 |
| COST (in thousands) | | \$ 0 | \$2,048 | \$6,023 | \$4,729 | \$10,643 | \$19,803 | \$8,116 |
| DESCRIPTION: This aircraft crash rescue fire truck equips our bases with a vehicle capable of rapidly extinguishing aircraft fires. When equipped with a structural kit, it serves dual roles of aircraft crash rescue truck and structural fire truck. It has a 1,500 gallon tank and, except for those equipped with high reach extendible turret, is air transportable in C-130 aircraft. The total Air Force FY99 procurement requirement is 661 against an inventory objective of 690. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (FIRE FIGHTING) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$ 0 | \$3,652 | \$2,287 | \$3,611 | \$2,802 | \$3,665 | \$2,879 |
| DESCRIPTION: This P-1 line includes two types of fire trucks with a procurement value of less than \$2,000,000 in FY99. This line buys aircraft crash fire trucks and heavy rescue vehicles which are both Code A items. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, F/L, 6000 LB | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 0 | 84 | 65 | 0 | 0 | 0 |
| COST (in thousands) | | \$ 0 | \$ 0 | \$2,328 | \$2,122 | \$ 0 | \$ 0 | \$ 0 |
| DESCRIPTION: This vehicle family can be described as a commercial forklift with pneumatic tires and 6,000 pound lifting capability. It is used for munitions handling, aerial port operations, base supply, warehouse, maintenance shop, and materials holding area support Air Force wide. This equipment is purchased in gasoline and diesel engine models, as well as in an adverse terrain (AT) configuration. The total Air Force FY99 procurement requirement is 1,319 against an inventory objective of 2,260. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, F/L 10,000 LB | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 15 | 56 | 107 | 58 | 35 | 51 |
| COST <small>(in thousands)</small> | | \$ 0 | \$ 758 | \$4,295 | \$7,935 | \$4,908 | \$3,000 | \$4,500 |
| <p>DESCRIPTION: This family of vehicles is defined as commercial 10,000 pound forklifts with pneumatic tires. These forklifts are the basic 463L air cargo system support vehicles to handle 108" X 88" pallets. They are compatible with and support all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet (CRAF) aircraft. The family consists of the standard model with dual 105" lift, 72" tine configuration and lateral shift capability as well as the adverse terrain (AT) model which utilizes a front end scoop loader chassis to provide the required mobility. The AT model permits rapid loading/offloading of aircraft cargo at forward combat locations. The total Air Force FY99 procurement requirement is 1,267 against an inventory objective of 3,156.</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: TRUCK, F/L 10,000 LB | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| TRUCK FORKLIFT, 10K AT (BPAC 5031) | | | | | | | | | | |
| FY97 * | 1 | 189 @ | AFMC/WR-ALC | ID/IQ | DLA/DISC (CANADIAN COMMERCIAL CORP) OTTAWA, CD | SEP 97 | AUG 99 | | | |
| FY97 * | 7 | 89 | AFMC/WR-ALC | ID/IQ | DLA/DISC (CANADIAN COMMERCIAL CORP) OTTAWA, CD) | SEP 97 | SEP 98 | | | |
| FY99 | 36 | 92 | AFMC/WR-ALC | ID/IQ | DLA/DISC (CANADIAN COMMERCIAL CORP) OTTAWA, CD | FEB 99 | OCT 99 | YES | | |
| | | | | | | | | | | |
| TRUCK FORKLIFT, 10K STANDARD (BPAC 5032) | | | | | | | | | | |
| FY97 * | 8 | 45 | AFMC/WR-ALC | C/FP | HYSTER DANVILLE, IL | JAN 97 | JAN 98 | | | |
| FY98 | 15 | 51 | AFMC/WR-ALC | ID/IQ | DLA/DISC (HYSTER) DANVILLE IL | JAN 98 | NOV 98 | | | |
| FY99 | 20 | 48 # | AFMC/WR-ALC | ID/IQ | DLA/DISC (HYSTER) DANVILLE IL | JAN 99 | NOV 99 | YES | | |
| | | | | | | | | | | |
| REMARKS: * Funded in Items Less than \$2,000,000, Material Handling Equipment, P-1 Line #29. @ Cost of first article includes first article test cost. # Based on FY98 actual contract price, FY99 is under funded. Below threshold reprogramming or quantity reduction may be necessary. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: 60K A/C LOADER | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 44* | 50* | 48* | 16* | 0 | 0 |
| COST (in thousands) | | \$ 0 | \$81,244 | \$89,179 | \$78,600 | \$32,520 | \$ 0 | \$ 0 |
| <p>DESCRIPTION: The 60,000 pound (60K) aircraft loader augments and ultimately replaces the current 463L material handling equipment (MHE) system 40K aircraft loader, the lower lobe aircraft loader, and approximately one-half of the wide body elevator loaders (WBEL), thus providing increased heavy lift and transport capability. It will be the backbone of the strategic airlift 463L MHE vehicle fleet and the critical link ensuring rapid on/off load capability of strategic airlift including Civil Reserve Aircraft Fleet (CRAF) aircraft. The 60K loader is an integral part of the airlift system during peacetime logistics missions and it will assure minimum ground times for increased capability during wartime surges. The 60K loader is designed to handle all configurations of air cargo including 463L pallets, commercial pallets, type V airdrop platforms, container delivery system (CDS) loads, International Standard Organization (ISO) containers, LD3 containers, and rolling stock. The loader has the capability to accommodate six pallets and load/off load a maximum of 60,000 pounds (to accommodate an Army airdrop requirement) to a height of at least 18.5 feet (to accommodate 747 aircraft) and to have a lowering capacity to 39 inches. It interfaces with current and planned military cargo aircraft as well as current civilian models utilized by commercial carriers and the CRAF. It is designed to meet nuclear materials handling safety criteria and certification. The 60K loader is "drive-on, drive-off" and air transportable on C-141, C-5, and C-17 aircraft. R&D funds (PEC 41214F) provided four prototypes (two each from two contractors). Development, Test, and Evaluation (DT&E) testing was completed in November 1993 and the Operational Assessment (OA) was completed in January 1994. Initial Operational Test and Evaluation (IOT&E) was completed in January, 1998. The initial production contract was awarded to Southwest Mobile Systems (now Systems and Electronics, Inc. (SEI)) in April 1994. The inventory objective is 318 loaders; 153 are funded in FY94 through FY99.</p> | | | | | | | | |
| <p>* Quantities differ from those reflected on the P-1 because new cost estimates had not been validated when the P-1 was updated. These documents reflect the most up-do-date information.</p> | | | | | | | | |

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| | P-1 ITEM: 27 | | PAGE NO: 69 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | P-1 NOMENCLATURE: 60K A/C LOADER |
|--|--|

| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 60K AIRCRAFT LOADER (BPAC 5121) | A | | | | | | | 44 | 1,554 | 68,366 | 50 | 1,450 | 72,500 |
| PRODUCT SUPPORT (BPAC 5122) | | | | | | | | | | | | | |
| A. ECO | | | | | | | | | | 500 | | | 500 |
| B. SPO OPERATIONS/SUPPORT | | | | | | | | | | 1,810 | | | 2,343 |
| C. COST REDUCTION INITIATIVES | | | | | | | | | | 3,000 | | | 2,000 |
| D. WARRANTY | | | | | | | | | | 1,016 | | | 1,190 |
| E. DIMENSIONAL MGT SYSTEM | | | | | | | | | | 2,548 | | | |
| F. INTEGRATED TECH DATA PACKAGE | | | | | | | | | | | | | 4,546 |
| CONTRACTOR INCENTIVES (OTHER THAN COST) | | | | | | | | | | 600 | | | 3,000 |
| SUB-TOTAL PRODUCT SUPPORT | | | | | | | | | | 9,474 | | | 13,579 |
| FIELD SUPPLY SUPPORT | | | | | | | | | | 3,404 | | | 3,100 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTALS | | | | | | | | 44 | | 81,244 | 50 | | 89,179 |

REMARKS:

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (MATERIAL HANDLING) |
|--|---|

| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|--|--|---------|---------|---------|---------|---------|---------|---------|
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$2,593 | \$2,051 | \$3,200 | \$2,665 | \$4,334 | \$4,760 | \$4,268 |

DESCRIPTION:
 This P-1 line includes various material handling vehicles with a procurement value of less than \$2,000,000 in FY99. These vehicles are lifting and sequencing trucks which are critical to depot and base supply operations. See the next page for a list of these Code A items.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: RUNWAY SNOW REMOV & CLEANING EQUIP | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 0 | 0 | 41 | 41 | 0 | 25 | 90 |
| COST (in thousands) | | \$ 0 | \$ 0 | \$3,928 | \$5,133 | \$ 0 | \$2,000 | \$10,544 |
| <p>DESCRIPTION: This family of vehicles is comprised of commercial sweepers and snow removal vehicles used on all airfield surfaces to control foreign object damage (FOD) to aircraft engines and tires, and to remove snow. Snow removal equipment includes front mounted brooms, multi-purpose blowers, and plows. Multi-purpose vacuum sweepers are used for airfields and roads and grounds. During winter at northern tier bases, the snow removal vehicles are critical to airfield operations. Fighter aircraft cannot land or take off with ice on the runway. It is equally important to have good vacuum sweepers at all air bases due to the high cost of FOD and the potential for loss of aircraft. The total Air Force FY99 procurement requirement is 960 against an inventory objective of 1,869.</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|------------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: RUNWAY SNOW REMOV & CLEANING EQUIP | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| CLEANER VACUUM MULTI-PURPOSE (BPAC 6211) | | | | | | | | | | |
| FY96 | 1 | 70 | AFMC/WR-ALC | ID/IQ | DLA/DSCC (TYMCO) WACO, TX | SEP 96 | FEB 97 | | | |
| FY99 | 19 | 73 | AFMC/WR-ALC | ID/IQ | DLA/DSCC (TYMCO) WACO, TX | JAN 99 | JUN 99 | YES | | |
| SWEEPER RRR DIRT (BPAC 6215) | | | | | | | | | | |
| FY94 | 4 | 36 | AFMC/WR-ALC | ID/IQ | DLA/DSCC (FORD) NEW HOLLAND, PA | MAR 94 | OCT 94 | | | |
| FY99 | 5 | 40 | AFMC/WR-ALC | ID/IQ | DLA/DSCC (UNKNOWN) | MAR 99 | OCT 99 | YES | | |
| DUMP TRUCK WITH SNOW BLADE (BPAC 6218) | | | | | | | | | | |
| FY93 | 9 | 109 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | NOV 94 | AUG 95 | | | |
| FY99 | 6 | 118 | AFMC/WR-ALC | ID/IQ | GSA (FORD) LOUISVILLE, KY | DEC 98 | SEP 99 | YES | | |
| SNOW PLOW, 54K GVW (BPAC 6219) | | | | | | | | | | |
| FY96 | 28 | 151 | AFMC/WR-ALC | ID/IQ | DSCC (OSHKOSH) OSHKOSH, WI | MAY 96 | SEP 96 | | | |
| FY99 | 5 | 161 | AFMC/WR-ALC | ID/IQ | DSCC (OSHKOSH) OSHKOSH, WI | DEC 98 | APR 99 | YES | | |
| REMARKS: | | | | | | | | | | |

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| | P-1 ITEM: 30 | | PAGE NO: 77 | |
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|---|--|----------------|---------------|---|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: MODIFICATIONS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$1,849 | \$ 196 | \$ 900 | \$ 900 | \$ 900 | \$ 900 | \$ 900 |
| DESCRIPTION: | | | | | | | | |
| <p>1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for vehicle equipment.</p> <p>2. The FY97 program will modify 25K loaders to enable them to load and unload cargo from wide body aircraft. Modification of 25K loaders will add a device which will increase the reach height of the deck from its current 13 foot reach to an 18 foot, 4 inch reach. The current loaders cannot service wide body aircraft due to their limited reach. Use of wide body aircraft for movement of DOD air cargo has steadily increased over the years, but the assets required for loading and offloading of these aircraft have not kept pace. There is a shortfall in material handling equipment (MHE) with high lift capability. Modifying these loaders will greatly enhance the Air Force's capability to accomplish its mission. Currently, there is a limited number of wide body elevator loaders (WBEL) in the field and they are used extensively to accomplish real world missions. These assets are routinely repositioned for air cargo loading and offloading. This practice is costly (approximately \$350,000 per month) and manpower intensive.</p> <p>3. The FY99 program represents a level of effort for "Miscellaneous Low Cost Modifications." This line item is to satisfy historically unforeseen modification requirements such as the 40,000 pound (40K) aircraft loaders which were reconfigured for use as casualty transfer vehicles in conjunction with Boeing 767AE aircraft to support Desert Storm.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/VEHICULAR EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE MAINTENANCE) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$3,127 | \$3,715 | \$7,663 | \$5,568 | \$8,158 | \$8,751 | \$ 552 |
| <p>DESCRIPTION: This P-1 line includes various base maintenance vehicles with a procurement value of less than \$2,000,000 in FY99. These vehicles provide Civil Engineering personnel with the capability to conduct sanitary landfill operations, improve airfield safety by removing foreign object damage (FOD) materials, and repair and construct base physical plant requirements. See the next page for a list of these Code A items.</p> | | | | | | | | |

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1999

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT PRESIDENT'S BUDGET
FOR FISCAL YEAR 1999

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM (NAS) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$ 0 | \$16,192 | \$45,308 | \$50,519 | \$51,529 | \$57,526 | \$46,508 |
| DESCRIPTION: | | | | | | | | |
| <p>The primary objective of the National Airspace System (NAS) is to modernize the Department of Defense (DoD) Air Traffic Control (ATC) system, in conjunction with the Federal Aviation Administration (FAA) modernization effort. Another major objective is in the development and fielding of an airspace scheduling, management, and reporting tool, the Military Airspace Management System (MAMS). NAS increases safety of flight, provides systems and facilities interoperable with the FAA modernization, replaces aging DoD ATC systems, provides identical service to military and civilian aircraft, prevents DoD flight cancellations/delays and reduces maintenance. Equipment to be procured will include fixed site approach control and control tower automation, radars, voice switches and ancillary supplies. Use of Non-Developmental Items (NDI) will be maximized. If modernization of the current air traffic equipment is not implemented, systems which are approaching the end of their life cycle will become increasingly more expensive and more difficult to repair. Additionally, the FAA is modernizing the nation's air traffic control system, and DoD must remain operationally compatible with the FAA in order to continue to provide service to the military community and the civilian users who depend on DoD's ATC services. The NAS program will modernize 65 DoD sites, each receiving a site unique array of equipment. Of these 65 DoD sites, 26 are Air Force sites requiring Air Force funding.</p> | | | | | | | | |
| <p>1. DOD ADVANCED AUTOMATION SYSTEM (DAAS): The DAAS will provide equipment tailored for the operation of two types of ATC facilities: local control facilities which are usually referred to as Radar Approach Controls (RAPCONs) and military control tower facilities. DAAS will replace the current generation air traffic control automation system (hardware and software) which exists in the DoD RAPCONs. It will provide digital controller displays, consoles, automation hardware and software to replace those that are approaching the end of their life cycle. FY99 funds procure and install five (5) DAAS at key Air Force locations.</p> | | | | | | | | |
| <p>2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR): The DASR consists of two subsystems, a primary and a secondary surveillance radar. DASR will replace the DoD current generation analog ATC surveillance radars with digital airport surveillance radars which will provide the aircraft position and other data to the controller displays in the RAPCON. FY99 funds will procure and install four (4) DASRs at key Air Force locations.</p> | | | | | | | | |
| <p>3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS): There will be procurement of three configurations of VCSS. VCSS replaces current voice switches with new digital voice switches for DoD RAPCONs and some stand alone control towers. VCSS provides the connectivity for the controllers to communicate via landlines and radios with requisite aircraft, vehicles, and agencies. FY98 and FY99 funds procure and install 13 and 19 VCSSs, respectively, at key Air Force locations.</p> | | | | | | | | |
| <p>4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS): MAMS was developed in response to two General Accounting Office (GAO) audits which criticized the FAA and DoD for inefficient management, use and tracking of Special Use Airspace (SUA). MAMS is an Air Force-led program that fields an automated scheduling and utilization reporting tool which will interconnect DoD SUA managers and allow more efficient scheduling and management of the activities within a specifically designated SUA. FY99 funds procure one (1) Internet-based MAMS system.</p> | | | | | | | | |
| | | | P-1 ITEM: 40 | | | PAGE NO: 1 | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM (NAS) | |
| <p>FY98 RDT&E funding (\$11.9 Million) supports Engineering Manufacturing and Development (EMD) and operational testing for a VCSS production decision in Aug 98 (supports FY98 Procurement funds) and a DASR/DAAS Low Rate Initial Production decision in Oct 98 (supports FY99 Procurement funds). Reference Program Element 35137 of the Air Force Descriptive Summaries.</p> | | |

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| | P-1 ITEM: 40 | | PAGE NO: 2 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|---|---------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NATIONAL AIRSPACE SYSTEM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. DOD ADVANCED AUTOMATION SYSTEM (DAAS) | | | | | | | | | | |
| FY99 | 5 | N/A [1] | AFMC/ESC [2] | OPT[3]/FFP MIPR | FAA / RAYTHEON CORP MARLBORO MA | FEB 99 | FEB 00 | NO | JUL 98 | |
| 2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR) | | | | | | | | | | |
| FY99 | 4 | N/A [1] | AFMC/ESC | OPT[4]/FFP | RAYTHEON CORP MARLBORO MA | FEB 99 | FEB 01 | NO | JUL 98 | |
| 3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS) | | | | | | | | | | |
| FY98 | 13 | N/A [1] | AFMC/ESC [2] | OPT[5]/FFP MIPR | FAA/ DENRO INC GAITHERSBURG MD | AUG 98 | JAN 99 | NO | MAR 98 | |
| FY99 | 19 | N/A [1] | AFMC/ESC [2] | OPT/FFP MIPR | FAA/ DENRO INC GAITHERSBURG MD | FEB 99 | AUG 99 | NO | MAR 98 | |
| 4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS) | | | | | | | | | | |
| FY99 | 1 | N/A [1] | AFMC/ESC | C/FP | UNKNOWN | JAN 99 | JUN 99 | NO | NOV 98 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| REMARKS: | | | | | | | | | | |
| NOTE: REFLECTS REVISED QUANTITY PROFILE (VCSS, DASR and DAAS) REALIGNED WITH THE REVISED (27 FEB 97) ACQUISITION PROGRAM BASELINE (APB) AND AMENDED (30 JUN 97) ACQUISITION DECISION MEMORANDUM (ADM), AND CURRENT FUNDING PROFILE. | | | | | | | | | | |
| [1] PROCUREMENT OF VARIOUS TYPES RESULTS IN VARYING UNIT COSTS - EQUIPMENT QUANTITY AND CONFIGURATION VARY FROM SITE TO SITE. | | | | | | | | | | |
| [2] THIS IS A JOINT AGENCY PROGRAM, BETWEEN THE AIR FORCE AND THE FEDERAL AVIATION ADMINISTRATION (FAA). THE FAA MANAGES THE CONTRACT. | | | | | | | | | | |
| [3] THE DAAS OPTION IS WITH THE STANDARD TERMINAL AUTOMATED REPLACEMENT SYSTEM CONTRACT WITH FAA, SEP 1996. | | | | | | | | | | |
| [4] THE DASR OPTION IS WITH THE RAYTHEON CONTRACT, AUG 96. | | | | | | | | | | |
| [5] THE VCSS OPTION IS WITH ENHANCED TERMINAL VOICE SWITCH CONTRACT WITH DENRO, MANAGED BY FAA, JULY, 95. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$18,797 | \$36,667 | \$30,002 | \$32,477 | \$36,926 | \$36,336 | \$36,301 |
| <p>DESCRIPTION: The Theater Air Control System Improvements (TACSI) program acquires the state-of-the-art equipment and capabilities essential to survival and combat effectiveness of tactical command and control (C2). Collectively, they provide the flexibility, responsiveness, reliability and maintainability necessary for effective tactical C2. Additionally, TACSI provides funding for procurement of the Air Force Mission Support System (AFMSS) which provides unit level mission planning systems for pilots and supports all current/future aircraft and associated weapons.</p> <p>1. GROUND THEATER AIR CONTROL SYSTEM (GTACS): GTACS supports the roles of aerospace control, force application, force enhancement, and force support. This support is provided to worldwide contingency operations ranging from peacetime contingencies, to military operations other than war, to projecting decisive force into a major regional conflict to support a strategic war. GTACS mission is to deploy a rapid reaction mobile capability into a theater, then to forward locations within that theater and set up self-sufficient bases of operations. Once established, GTACS' battle management resources provide joint forces and theater commanders with a recognizable air picture for command and control of air operations. In support of this mission, GTACS elements accomplish battle management, force allocation, control of airborne assets (counter air, aerial refueling, interdiction, close air support, reconnaissance, airlift, special missions and others), surveillance, early warning, identification, and theater missile defense. They are also responsible for connectivity with elements of the Theater Air Control System (TACS) within a designated Area of Responsibility (AOR) to include USAF, United States Navy (USN), United States Marine Corps (USMC), United States Army (USA), and allied assets. GTACS consists of a family of communication/electronics components. The requirements for funding are provided in the following categories:</p> <p>a./b. MODULAR CONTROL EQUIPMENT (MCE)/OPERATIONS MODULE (OM) INTERFACE KITS: MCE mobile command and control (C2) centers link with existing (Airborne Warning and Control System (AWACS), Joint Stars, ABCCC (Airborne Battlefield Command and Control Center)) and planned sensors and other communication systems to provide the Joint Forces Air Component Commander (JFACC) an integrated air picture for C2 on the tactical battlefield. The MCE Pre-Planned Product Improvement Program (P3I), begun in FY93, increased MCE capability and includes among other things the Automated Air Tasking Order (AATO), JTIDS Module (JM) and the OM interface kits to implement the MCE P3I via a field installable Time Compliance Technical Order (TCTO). FY97 funding provided funds for equipment upgrades, Interim Contractor Support (ICS) and program support. FY98/99 funding continues ICS and MCE program support. Additionally, FY98/99 funding will complete the AF inventory objective for OM interface kits with procurement buys of 26 and 32 in each respective year.</p> <p>c. AN/TLQ-32 ANTI-RADIATION MISSILE (ARM) DECOY: This is an ancillary capability to the AN/TPS-75 radar. FY98-99 funding provides for ICS during warranty period or until organic depot capability is established following transition of the depot workload from SM-ALC to Tobyhanna Army Depot.</p> <p>d. AN/TSC-147 JTIDS MODULE (JM) SYSTEM: This is an ancillary capability to the MCE. FY97-99 funding provides for ICS until an organic depot capability is established following transition of the depot workload from SM-ALC to Tobyhanna Army Depot.</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS | |
| <p>2. AIR FORCE MISSION PLANNING SYSTEM PROGRAM (AFMSS): This program provides a suite of mission planning systems integrated with Theater Battle Management (TBM) systems which allows aircrews to electronically receive tasking orders and intelligence information; prepare and calculate flight and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predictions); and electronically transfer this data to the aircraft and weapons. These systems increase the combat effectiveness of Air Force (active duty, guard, and reserve forces) and Special Operations Forces aircraft and weapons by increasing wartime sortie rates, supporting sophisticated avionics and precision/autonomous guided munitions, and providing the ability to analyze and defeat complex threats. The program procures the following workstations: the Mission Planning System (MPS), Portable Mission Planning System (PMPS), MPS Upgrades, and Portable Flight Planning Software (PFPS) Personal Computers (PCs). MPS, PMPS, MPS Upgrades and PFPS PCs provide a cost effective range of increasingly more capable systems to meet the continuum of peacetime, contingency, and wartime mission planning requirements. MPS, PMPS, MPS Upgrades, and PFPS PC requirements are reviewed annually to stay abreast of the rapidly evolving Commercial-Off-The-Shelf (COTS) technology and changes in the number, type, and deployment of aircraft/weapons supported. Market surveys and analysis of COTS products are performed as needed to support production decisions.</p> <p>a. MPS (previously called "Fixed Workstation") consists of transportable UNIX-based workstations (1-5 workstations) integrated with Air Force Mission Support System (AFMSS) software to provide considerable mission planning functionality, large data storage, and full interoperability with TBM systems. FY97 procured two workstations. These workstations are dual processors in a server/client configuration. FY99 will procure 13 workstations. These workstations will be in a single processor server configuration.</p> <p>b. The PMPS (previously called "Portable Workstation") consists of a portable UNIX-based laptop computer providing MPS functionality with limited data storage and fewer peripheral devices. FY97 procured five PMPS. No FY99 funds are requested.</p> <p>c. MPS Upgrades is a retrofit program that upgrades existing workstation capabilities, performance and size. FY97 funds procured 331 MPS Upgrades. FY98 funds will procure 53 MPS Upgrades. FY99 funds will procure 72 MPS Upgrades.</p> <p>d. The PFPS PCs consists of a PC-based laptop computer integrated with PFPS PCs software to provide flight planning functionality. FY97 funds procured 518 PFPS PCs. FY98 funds will procure 970 PFPCs. FY99 funds will procure 269 PFPS PCs.</p> <p>e. FY97-99 funding also provides for program engineering support for AFMSS.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|---------------|--|--|--|--|--------------|---------------|---------|--------------|------------------------|---------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS | | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. GTACS | | | | | | | (4,149) | | | (22,252) | | | (20,813) |
| A. MODULAR CONTROL EQUIPMENT (MCE) | A | | | | | | (3,949) | | | (3,161) | | | (3,252) |
| MCE EQUIPMENT UPGRADES | | | | | VAR | N/A | 707 | | | | | | |
| ICS | | | | | | | 500 | | | 687 | | | 700 |
| PROGRAM SUPPORT | | | | | | | 2,742 | | | 2,474 | | | 2,552 |
| B. OM INTERFACE KITS | A | | | | | | | 26 | 711 | 18,491 | 32 | 530 | 16,961 |
| C. AN/TLQ-32 ARM DECOY - ICS | A | | | | | | | N/A | N/A | 200 | N/A | N/A | 200 |
| D. AN/TSC-147 - ICS | A | | | | N/A | N/A | 200 | N/A | N/A | 400 | N/A | N/A | 400 |
| 2. AIR FORCE MISSION PLANNING SYSTEM (AFMSS) | | | | | | | (14,648) | | | (14,415) | | | (9,189) |
| A. MISSION PLANNING SYSTEM (MPS) | A | | | | 2 | 154 | 308 | | | | 13 | 60 | 780 |
| B. PORTABLE MISSION PLANNING SYSTEMS (PMPS) | A | | | | 5 | 43 | 215 | | | | | | |
| C. MPS UPGRADES | A | | | | 331 | 26 | 8,606 | 53 | 62 | 3,286 | 72 | 62 | 4,464 |
| D. PORTABLE FLIGHT PLANNING SYSTEMS (PFPS) PERSONAL COMPUTERS (PCS) | A | | | | 518 | 7 | 3,626 | 970 | 10 | 9,700 | 269 | 10 | 2,690 |
| E. PROGRAM/ENGINEERING SUPPORT | A | | | | | | 1,893 | | | 1,429 | | | 1,255 |
| TOTAL | | | | | | | 18,797 | | | 36,667 | | | 30,002 |
| REMARKS: | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|-----------------|--|---------------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. GTACS | | | | | | | | | | |
| A. MCE EQUIPMENT UPGRADES | | | | | | | | | | |
| FY97 | VAR[1] | N/A[1] | AFMC/ESC | OPT/FFP[2] | HUGHES AIRCRAFT, INDIANAPOLIS, IN | JUN 97 | SEP 97 | | | |
| B. OM INTERFACE KITS | | | | | | | | | | |
| FY98 | 26 | 711 | AFMC/SM-ALC | OPT/FFP (ID/IQ)[3] | LITTON DATA SYSTEMS, AGOURA HILLS, CA | NOV 97 | JUN 98 | | | |
| FY99 | 32 | 530 | AFMC/SM-ALC | OPT/FFP (ID/IQ)[3] | LITTON DATA SYSTEMS, AGOURA HILLS, CA | OCT 98 | FEB 99 | YES | | |
| 2. AFMSS | | | | | | | | | | |
| A. MPS | | | | | | | | | | |
| FY97 | 2 | 154[5] | AFMC/ESC | IDIQ/FFP | VAR[4] | MAR 97 | MAY 97 | | | |
| FY99 | 13 | 60 | AFMC/ESC | IDIQ/FFP | VAR[4] | JAN 99 | MAR 99 | YES | | |
| B. PMPS | | | | | | | | | | |
| FY97 | 5 | 43 | AFMC/ESC | C/FFP | LOCKHEED SANDERS NASHUA, NH | AUG 97 | NOV 97 | | | |
| C. MPS UPGRADES | | | | | | | | | | |
| FY97 | 331 | 26[6] | AFMC/ESC | IDIQ/FFP | VAR [4] | MAY 97 | SEP 97 | | | |
| FY98 | 53 | 62[6] | AFMC/ESC | IDIQ/FFP | VAR [4] | JAN 98 | APR 98 | | | |
| FY99 | 72 | 62[6] | AFMC/ESC | IDIQ/FFP | VAR [4] | JAN 99 | APR 99 | YES | | |
| D. PFPS PCS | | | | | | | | | | |

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| PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P-21) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER AIR CONTROL SYSTEM IMPROVEMENTS |
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| ITEM/MANUFACTURER/ PROCUREMENT YEAR | SERV. | PROC. QTY. | ACCEP. PRIOR TO 1 OCT. | BAL DUE AS OF 1 OCT. | CALENDAR 1998 | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|---------------|------------------------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | FY98 | | | | | | | | | | | | FY99 | | | | | | | | | | | |
| | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 2. MISSION PLANNING SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. MPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY97 | AF | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FY99 | AF | 13 | 0 | 13 | | | | | | | | | | | | | | C | | 13 | | | | | | | | |
| TOTALS | | 15 | 2 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

| ITEM/MANUFACTURER/ PROCUREMENT YEAR (repeat of items above) | SERV. | PROC. QTY. | ACCEP. PRIOR TO 1 OCT. | BAL DUE AS OF 1 OCT. | CALENDAR 2000 | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|---------------|------------------------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | FY00 | | | | | | | | | | | | FY01 | | | | | | | | | | | |
| | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 2. MISSION PLANNING SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. MPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY97 | AF | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FY99 | AF | 13 | 13 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

| MANUFACTURER'S NAME AND LOCATION | PRODUCTION RATES | | | PROCUREMENT LEAD TIME | | | |
|-------------------------------------|------------------|-------|------|-----------------------|-------------|---------------|-------------|
| | MIN. SUST. | 1-8-5 | MAX. | ADMIN LEAD TIME | | MANUFACTURING | TOTAL AFTER |
| CORDANT, BURLINGTON, MA | [1] | | [1] | PRIOR TO 1 OCT | AFTER 1 OCT | PLT | 1 OCT. |
| BTG, VIENNA, VA | [1] | | [1] | INITIAL | | | 0 |
| SRA, FIARFAX, VA | [1] | | [1] | REORDER | 3 | 2 | 5 |

REMARKS: [1] THIS SYSTEM IS COMPOSED OF COTS COMPONENTS WHICH ARE COMMERCIALY AVAILABLE TO THE PRIME CONTRACTORS. THE PRIME CONTRACTORS WILL PROVIDE THE NUMBERS OF SYSTEMS REQUIRED FOR A FIRM FIXED PRICE FOR ANY NUMBER OF SYSTEMS PROCURED.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$17,643 | \$21,256 | \$18,581 | \$26,591 | \$27,536 | \$29,309 | \$28,101 |
| DESCRIPTION: | | | | | | | | |
| <p>This is a continuing program for acquisition of meteorological and space environmental equipment needed to support worldwide missions of the Air Force (AF), the Army, Special Operations Forces (SOF), unified commands, and Other Government Agencies (OGA). Included are both fixed and transportable equipment needed to provide observing and forecasting services at the base or post and for field deployments; fixed hardware to provide centralized analyses, forecasts, and climatological assessments to decision-makers at all levels. Programs include the Tactical Observing and Forecasting System (TOFS), which will provide a lightweight first-in combat forecasting capability; Air Force Combat Climatology Center (AFCCC) which provides climatological support to DoD customers worldwide; a Tactical Weather Radar (TWR) acquisition that fills critical weather radar needs for resource protection worldwide; and the Space Weather Analysis and Forecast System (SWAFS), which gives operators the ability to effectively use space weather data. These programs are crucial to implementing the AF Weather Re-Engineering milestones in the AF Chief of Staff approved AF Weather Strategic Plan. Operational Weather Squadrons (OWS) and base-level support from Combat Weather Teams (CWT) will be implemented through these standard systems.</p> | | | | | | | | |
| <p>1. TACTICAL OBSERVING AND FORECASTING SYSTEM (TOFS): TOFS is a system that will give deployed weather forces the capability to manipulate data and disseminate weather forecasts, advisories, warnings, briefings, and current weather information to Air Operations Centers, flying squadrons, air traffic control facilities, deployed weather teams, and Army elements located within theater of operations. TOFS has two components: the Tactical Forecast System (TFS) and the Manual Observing System (MOS).</p> | | | | | | | | |
| <p>A. The TFS is a garrison system which is also a deployable "first-in" combat weather forecast capability when fed from a regional OWS supporting operations. The TFS will consist of government furnished software and commercial off-the-shelf hardware. The system will receive and disseminate data via theater deployable communications, satellite communications, or operate in a stand-alone configuration receiving weather data through DoD weather dial-in services. The TFS will replicate most home station operations, enhancing operator proficiency and minimizing the need for special training. The TFS will replace large, error prone systems that have dissimilar components. The total Air Force requirement is 306. FY97 funds began procurement of TFS systems to provide commanders with reliable weather information impacting critical combat operations. FY98 funds 59 systems; FY99 funds 47 systems.</p> | | | | | | | | |
| <p>B. MOS is a single-person portable observing system containing essential basic observing equipment with procurement beginning with FY95 funds. FY99 funds continue the procurement toward the total Air Force requirement of 400.</p> | | | | | | | | |
| <p>2. AIR FORCE COMBAT CLIMATOLOGY CENTER (AFCCC) REPLACEMENT (AFCCC-R): The AFCCC-R program will replace/upgrade the computer systems required at AFCCC (Scott AFB, IL), Operating Location-A (OL-A), AFCCC (Asheville, NC) and at Air Force Weather Agency (AFWA) (Offutt AFB, NE). AFCCC (Scott AFB) is in the process of relocating to the Asheville, NC location for collocation with the National Climatic Data Center to better leverage federal climatic data centers. This will result in improved customer support through shared databases and applications. AFCCC-R provides improved climatological support to DoD customers worldwide, providing the climatological support required by Air Force and Army planners, Air Force weapon systems developers, and defense modeling and simulation activities. Funding will provide life-cycle replacements for computer systems hardware and will enhance computer systems</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST | |
| <p>processing and storage capabilities needed to meet customer requirements. AFCCC mainframes will be replaced with open systems compliant hardware and software. The program began in FY96 by replacing AFCCC computer hardware/software. FY97 funds replaced OL-A computer hardware/software and upgraded the AFGWC centralized data base. FY98 funds complete procurement of hardware, contractor data, and installation of the systems.</p> <p>3. HYPERCHANNEL REPLACEMENT: The HYPERchannel is a proprietary high capacity local area network (LAN) at the Air Force Weather Agency (AFWA) (Offutt AFB, NE) which provides data communications between AFWA's mainframe computer systems and peripheral devices. Funding will procure the hardware and associated software to replace the existing computer-to-computer communications links that were installed in 1984 and are nearing the end of their technical life span. The network has become saturated with traffic, causing product distribution delays. AFGWC risks network failure, severely impairing their ability to meet warfighter requirements for weather information. Further, the existing HYPERchannel does not have the capacity to meet the projected requirements for higher density data products (temperature, humidity, wind fields, and clouds) required to support Theater Battle Management (TBM) requirements. This was a FY97 procurement with no FY99 funds requested.</p> <p>4. CLOUD DEPICTION AND FORECAST SYSTEM (CDFS) II: CDFS II provides hourly, high resolution, worldwide cloud analyses, forecasts, and products to all operational forces worldwide. Funding purchases equipment to replace logistically unsupportable mainframe computers at the Air Force Global Weather Center (AFGWC), Offutt AFB, NE and will upgrade satellite data processing, cloud depiction, and classified weather support functions for operational commanders and National Programs, providing a capability that cannot be met with the current system. FY98 funds begin the procurement, buying interface and cloud analysis hardware and associated software. FY99 funds will procure cloud forecast hardware/software plus the network and integration required for the system.</p> <p>5. GLOBAL THEATER WEATHER ANALYSIS AND PREDICTION SYSTEM (GTWAPS): GTWAPS replaces the computer hardware and software that comprise the Advanced Weather Analysis and Prediction System (AWAPS) located at AFWA (Offutt AFB, NE). GTWAPS will improve support to the warfighter by incorporating an advanced computing platform, providing for future expanding computer requirements, state-of-the-science theater-scale analysis and forecast software, the capability to ingest and use observations from classified locations, and provide forecast products consistent with Theater Battle Management (TBM) requirements. FY98 funds the hardware procurement.</p> <p>6. SPACE WEATHER ANALYSIS AND FORECAST SYSTEM (SWAFS): SWAFS will replace the aging and logistically unsupportable hardware and software currently located at the 55th Space Weather Squadron (55SWXS) (Falcon AFB, CO), and will transition the proprietary space weather system to an open system environment. The 55SWXS is unique--DoD's only center with equipment and expertise for providing observations, analyses, and forecasts of the space environment in support of DoD and National Programs. The upgrade will replace four separate computer clusters over a four-year time-frame while sustaining continuous operational availability during this intensive effort. It will integrate near-term Space Environmental Technology Transition (SETT) models, currently under development, and future advanced-physics SETT models into the operational system. SWAFS modernizes the 55SWXS and accomplishes the following: transitions from the Automatic Digital Information Network (AUTODIN) to the Defense Message System (DMS); complies with DoD information technology standards such as the Defense Information Infrastructure (DII) Common Operating Environment (COE); and ensures interoperability with Global Command and Control System (GCCS). FY98 funds starts the procurement with additional computer processing and disk storage capacity to support solar maximum. FY99 funds will procure open system architecture and rehost software for the computer clusters. Outyear funding continues the program.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST | |
| <p>7. SATELLITE DATA HANDLING SYSTEM (SDHS): SDHS is a fixed suite of forecaster workstations within Air Force Global Weather Center (AFGWC) which provides the global, large scale satellite data information to DoD customers worldwide. It incorporates weather satellite imagery and weather observations to allow forecasters to produce analysis and forecast weather products for worldwide DoD missions. SDHS is the key tool forecasters use to produce tailored, highly detailed mission planning and operational forecasts for routine, contingency, and classified DoD operations. The current SDHS system does not have the ability to ingest the required satellite data from foreign sources, thus restricting access to a readily available worldwide weather data base. This upgrade will allow SDHS to receive, store, archive, and process new sources of foreign geostationary weather satellite data and weather information used to tailor operational forecasts for warfighters worldwide. FY98 funds the computer hardware required for this effort and completes the upgrade.</p> <p>8. TACTICAL WEATHER RADAR (TWR): This program supports worldwide military operations by providing tactical/deployable Doppler weather radar capability, replacing existing radars at deployed locations and at fixed locations overseas. Current deployable (TPS-68) and fixed weather radars (FPQ-21, FPS-77) have been declared logistically unsupportable and no longer meet operational needs. The TWR provides the combat forces a modern, Doppler radar technology and will allow connectivity to programmed weather forecast systems for the distribution of severe weather products to standard Command, Control, Communications, Computers, and Information (C4I) systems. FY98 funds begin procurement with the purchase of one radar for Operational Test and Evaluation (OT&E). FY99 dollars purchase one tactical radar. Outyear funding continues the program, with a total inventory objective of 16 tactical, one training, and 11 fixed radars.</p> <p>9. AUTOMATED SURFACE OBSERVING SYSTEMS (ASOS): This program provides limited automated weather observations at ranges, unattended airfields, and after duty hours at limited duty weather stations. The funding was a Congressional add to purchase 11 systems in FY97, 10 systems in FY98.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. TOFS | | | | | | (4,965) | | | (4,324) | | | (3,209) | |
| A. TFS | | | | | | | | | | | | | |
| PRIME MISSION EQ | A | | | | 65 | 62 | 4,030 | 59 | 53 | 3,127 | 47 | 53 | 2,491 |
| TECHNICAL DATA | | | | | | | 480 | | | 210 | | | 170 |
| ENG/PROGRAM MGT | | | | | | | 555 | | | 487 | | | 377 |
| B. MOS | | | | | | | | | | | | | |
| PRIME MISSION EQ | A | | | | | | | 55 | 9 | 500 | 19 | 9 | 171 |
| 2. AFCCC-R | | | | | | | (5,662) | | | (2,493) | | | |
| PRIME MISSION EQ | A | | | | VAR | N/A | 3,683 | VAR | N/A | 1,426 | | | |
| TECHNICAL DATA | | | | | | | 1,239 | | | 201 | | | |
| ENG/PROGRAM MGT | | | | | | | 740 | | | 866 | | | |
| 3. HYPERCHANNEL | | | | | | | (2,781) | | | | | | |
| REPLACEMENT | | | | | | | | | | | | | |
| PRIME MISSION EQ | A | | | | VAR | N/A | 1,975 | | | | | | |
| TECHNICAL DATA | | | | | | | 332 | | | | | | |
| ENG/PROGRAM MGT | | | | | | | 474 | | | | | | |
| 4. CDFS-II | | | | | | | | | | (4,400) | | | (4,681) |
| PRIME MISSION EQ | A | | | | | | | VAR | N/A | 3,300 | VAR | N/A | 3,681 |
| ENG/PROG MGT | | | | | | | | | | 1,100 | | | 1,000 |
| 5. GTWAPS | | | | | | | | | | (3,796) | | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|--|---------------|--|--|--|---------|---|---------------|---------|--------------|---------------|------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| PRIME MISSION EQ | A | | | | | | | VAR | N/A | 3,020 | | | |
| TECHNICAL DATA | | | | | | | | | | 276 | | | |
| ENG/PROG MGT | | | | | | | | | | 500 | | | |
| 6. SWAFS | | | | | | | | | | (1,380) | | | (9,314) |
| PRIME MISSION EQ | A | | | | | | | VAR | N/A | 726 | VAR | N/A | 8,614 |
| TECHNICAL DATA | | | | | | | | | | 110 | | | 180 |
| ENG/PROG MGT | | | | | | | | | | 544 | | | 520 |
| 7. SDHS | | | | | | | | | | (63) | | | |
| PRIME MISSION EQ | A | | | | | | | VAR | N/A | 63 | | | |
| 8. TWR | | | | | | | | | | (800) | | | (1,377) |
| PRIME MISSION EQ | A | | | | | | | 1 | 700 | 700 | 1 | 865 | 865 |
| TECHNICAL DATA | | | | | | | | | | | | | 106 |
| ENG/PROGRAM MGT | | | | | | | | | | 100 | | | 406 |
| 9. ASOS | | | | | | | (4,000) | | | (4,000) | | | |
| PRIME MISSION EQ | A | | | | 11 | 320 | 3,520 | 10 | 300 | 3,000 | | | |
| ENG/PROGRAM MGT | | | | | | | 615 | | | 1,000 | | | |
| TOTAL | | | | | | | 17,643 | | | 21,256 | | | 18,581 |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|-----------------------------|--------|-----------|-----------------|------------------------|---------------------------------|------------|------------------------|-----------------|----------------------|
| 1. TOFS | | | | | | | | | |
| A. TFS | | | | | | | | | |
| FY97 | 65 | 62 | AFMC/ESC | OPT/CPFF[1] | LOCKHEED MARTIN CO SPRGS, CO | JAN 97 | APR 97 | | |
| FY98 | 59 | 53 | AFMC/ESC | OPT/CPFF[1] | LOCKHEED MARTIN CO SPRGS, CO | MAR 98 | APR 98 | YES | |
| FY99 | 47 | 53 | AFMC/ESC | OPT/CPFF[1] | LOCKHEED MARTIN CO SPRGS, CO | JAN 99 | APR 99 | YES | |
| MOS | | | | | | | | | |
| FY98 | 55 | 9 | HQ AFWA | OPT/FFP | LITTON WINDSOR, CT | OCT 97 | JAN 98 | | |
| FY99 | 19 | 9 | HQ AFWA | OPT/FFP | LITTON WINDSOR, CT | OCT 98 | JAN 99 | YES | |
| | | | | | | | | | |
| 2. AFCCC-R | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | AFMC/ESC | OPT/FPIF[3] | RAYTHEON OMAHA, NE | OCT 96 | JAN 97 | | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC | OPT/FPIF[3] | RAYTHEON OMAHA, NE | OCT 97 | AUG 98 | | |
| | | | | | | | | | |
| 3. HYPERCHANNEL REPLACEMENT | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | HQ AWS | C/CPFF | TRICOR, KANSAS CITY, MO | FEB 97 | SEP 97 | | |
| | | | | | | | | | |
| 4. CDFS II | | | | | | | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/SMC | OPT/CPAF[4] | STERLING CORP BELLEVUE, NE | OCT 97 | SEP 99 | | |
| FY99 | VAR[2] | N/A[2] | AFMC/SMC | OPT/CPAF[4] | STERLING CORP BELLEVUE, NE | OCT 98 | SEP 00 | YES | |
| | | | | | | | | | |
| 5. GTWAPS | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|--------|-----------|-----------------|---|-----------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: WEATHER OBSERVATION/FORECAST | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC | C/FPIF | TRW, BELLEVUE, NE | OCT 97 | MAR 98 | | | |
| 6. SWAFS | | | | | | | | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/SMC | C/FFP | UNKNOWN | APR 98 | SEP 98 | NO | JAN 98 | |
| FY99 | VAR[2] | N/A[2] | AFMC/SMC | C/CPAF | UNKNOWN | JAN 99 | SEP 99 | NO | JUL 98 | |
| 7. SDHS | | | | | | | | | | |
| FY98 | VAR[2] | N/A[2] | HQ AFWA | OPT/CPAF[5] | STERLING CORP. BELLEVUE, NE | OCT 97 | APR 98 | YES | | |
| 8. TWR | | | | | | | | | | |
| FY98 | 1 | 700 | AFMC/ESC | C/FFP | UNKNOWN | JUN 98 | DEC 98 | NO | APR 98 | |
| FY99 | 1 | 865 | AFMC/ESC | OPT/FFP | UNKNOWN | MAR 99 | JUN 99 | NO | JAN 99 | |
| 9. ASOS | | | | | | | | | | |
| FY97 | 11 | 320 | HQ AFWA | MIPR/OPT/FFP[6] | SMI, HUNT VALLEY MD | APR 97 | JUN 98 | | | |
| FY98 | 10 | 300 | HQ AFWA | MIPR/OPT/FFP[6] | SMI, HUNT VALLEY MD | MAR 98 | JUN 98 | YES | | |
| REMARKS: | | | | | | | | | | |
| 1. OPTION TO EXISTING STANDARD AIR FORCE WORKSTATION CONTRACT. | | | | | | | | | | |
| 2. QUANTITY AND UNIT COSTS VARY ACCORDING TO SITE CONFIGURATION. | | | | | | | | | | |
| 3. OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY AFMC/SM-ALC, MCCLELLAN AFB, CA. | | | | | | | | | | |
| 4. OPTION TO BASIC CDFS II CONTRACT FOR HARDWARE, SUPPORT AND SERVICES AWARDED IN JUN 95. | | | | | | | | | | |
| 5. SDHS SUPPORT & SERVICES CONTRACT RECOMPETED IN NOV 96. | | | | | | | | | | |
| 6. OPTION TO BASIC NATIONAL WEATHER SERVICE (NWS) CONTRACT AWARDED AUG 97. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$13,378 | \$19,983 | \$10,848 | \$18,440 | \$19,779 | \$21,785 | \$21,775 |
| DESCRIPTION: | | | | | | | | |
| <p>This program procures mission critical communications and computer systems required to ensure that the President of the United States has the capability for effective command and control of the Twin Triad (nuclear and conventional). It procures hardware replacements/upgrades to maintain the only computer system that produces the nation's nuclear war plan, and performs conventional/contingency war planning. In addition, it provides computer systems essential for the B-2 Weapon System to maintain mission ready status. Finally, the program supports replacing outdated and unreliable communications equipment in unit command posts with modern digital systems essential for maintaining an operational and reliable command and control element.</p> | | | | | | | | |
| <p>1. STRATEGIC WAR PLANNING SYSTEM (SWPS): This funding continues the program that maintains a planned, phased modernization of the SWPS. SWPS is one of the DoD's most complex, classified computer systems and the only system that produces the Single Integrated Operational Plan (SIOP) which targets every strategic nuclear warhead in the US inventory. The system performs tasks ranging from running threat scenarios to providing data for developing bomber aircraft crews strike mission data in digital and hard copy formats. FY97 production of the SIOP was performed on the TRIAD Computer System (TRICOMS), which consists of two mainframe computers and associated equipment. Beginning in FY98, activity will transition to a client-server environment. FY97 funds procured required servers, storage devices and associated support equipment. In FY 98 and FY99, the servers and associated peripheral equipment needed to complete the transition from a mainframe to a client-server environment will be purchased.</p> | | | | | | | | |
| <p>2. B-2 SUPPORT: The B-2 weapon system relies heavily on computers and communications equipment to meet its operational/design capability. These funds support the following B-2 dedicated systems:</p> | | | | | | | | |
| <p>a. ENGINEERING DATA SYSTEM (EDS): EDS provides engineers specialized computers for on-line access to B-2 aircraft data. This data consists of engineering analysis, manufacturing data, aircraft drawings, and software documentation to help solve technical issues on B-2 aircraft in the field. Locations with EDS computers include: Langley AFB, VA; Whiteman AFB, MO; Wright-Patterson AFB, OH; Oklahoma City Air Logistics Center; and Northrop Grumman Corp in CA. FY97 funds upgraded EDS computers by purchasing commercial off-the-shelf (COTS) hardware (computers, scanners, plotters, printers) and associated software. FY98/99 funds complete EDS computer upgrades.</p> | | | | | | | | |
| <p>b. WEAPON SYSTEM SUPPORT CENTER (WSSC): Located at Oklahoma City Air Logistics Center, the WSSC houses engineers that provide software maintenance on two million lines of software code for the B-2 aircraft. Software maintenance fixes to aircraft systems include flight controls, flight management, navigation systems, weapons, and the defensive management system. To accomplish these software intensive fixes, engineers use the WSSC's Software Development Station (SDS), a complex VAX computer to analyze and design fixes to existing aircraft software. FY97 funds procured upgrades to VAX equipment (VAX hardware, terminals on the engineer's desk, printers) for the SDS. FY98 funding will be used to expand the internal Local Area Network (LAN) for a 60,000 square foot addition to the WSSC. The LAN expansion adds fiber cable, network components, computers, commercial software, fiber boxes, patch panels, and jumper fiber cables to connect to the original portion of the WSSC. FY99 funds will provide upgrades to subcontractor software laboratories that are being relocated from the Northrop Grumman, California facility to Oklahoma City Air Logistic Center. These contractor laboratories are</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL | |
| <p>1980s vintage systems and require upgrading to 1990s technology.</p> <p>3. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is the single survivable national Command and Control (C2) Automated Information System (AIS) supporting the National Command Authorities (NCA), Joint Staff, and nuclear CINC's in the trans/post phases of nuclear conflict. FY99 funds will procure one suite of equipment for the National Air Operations Center (NAOC) and will begin lifecycle replacement of servers and redundant array of disks which will expand command post capability to mirror fixed and ground mobile command centers with ability to receive, process, and transmit battlestaff information while flying.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|-------------|------------------|------------------------|---|----------------------------------|-------------------|-------------------------------|------------------------|-----------------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. STRATEGIC WAR PLANNING SYSTEM | | | | | | | | | | |
| TRICOMS | | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ STRATCOM | OPTION [1] | GENERAL DYNAMICS BELLEVUE, NE | OCT 96 | FEB 97 | | | |
| FY98 | VAR | N/A[2] | HQ STRATCOM | OPTION [1] | GENERAL DYNAMICS BELLEVUE, NE | OCT 97 | FEB 98 | YES | | |
| FY99 | VAR | N/A[2] | HQ STRATCOM | OPTION [1] | GENERAL DYNAMICS BELLEVUE, NE | OCT 98 | FEB 99 | YES | | |
| 2. B-2 SUPPORT | | | | | | | | | | |
| A. ENGINEERING DATA SYSTEMS (EDS) | | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/OC-ALC | OPTION [3] | MULT | JAN 97 | APR 97 | | | |
| FY98 | VAR | N/A[2] | AFMC/OC-ALC | OPTION [3] | MULT | MAR 98 | APR 98 | YES | | |
| FY99 | VAR | N/A[2] | AFMC/OC-ALC | OPTION [3] | MULT | MAR 99 | APR 99 | YES | | |
| B. WPN SYS SUPPORT CENTER (WSSC) | | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/OC-ALC | OPTION [3] | MULT | MAR 97 | JUL 97 | | | |
| FY98 | VAR | N/A[2] | AFMC/OC-ALC | OPTION [3] | MULT | MAR 98 | JUL 98 | YES | | |
| FY99 | VAR | N/A[2] | AFMC/OC-ALC | OPTION [3] | MULT | MAR 99 | JUL 99 | YES | | |
| 3. NPES | | | | | | | | | | |
| FY99 | VAR | N/A [2] | HQ STRATCOM | OPTION [3] | MULT | OCT 98 | DEC 98 | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|-----------------|---|-------------------------|------------|-------------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: STRATEGIC COMMAND AND CONTROL | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| REMARKS: 1. OPTION TO JULY 89 COMPETITIVE CONTRACT AWARDED TO GENERAL DYNAMICS THROUGH FY99. 2. VARYING UNIT COSTS DUE TO MULTIPLE TYPES OF EQUIPMENT BEING PROCURED. 3. OPTIONS TO NUMEROUS ACQUISITIONS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REFLECT DATE OF FIRST AWARD AND DELIVERY. | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$2,243 | \$ 718 | \$ 896 | \$ 955 | \$1,068 | \$ 618 | \$ 688 |
| DESCRIPTION: | | | | | | | | |
| <p>This program supports acquisition for Cheyenne Mountain Complex (CMC). It includes both the current suite of equipment and the new Cheyenne Mountain Upgrade (CMU) suite. CMU was established to upgrade and modernize the software, computer resources, and related communications for CMC-unique command and control (C2) applications. The CMC program: (1) provides real-time processing and display of missile warning and force management information to the CMC and the Alternate Missile Warning Center (AMWC), and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) provides communication services for all communications into or out of CMC and between CMC mission processors; (3) replaces the processors and display systems supporting the NORAD Air Center (NAC), North American Aerospace Defense (NORAD) Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) provides an effective command post to support NORAD's multiple warning and defense missions; (5) automates the manual handling of space surveillance and warning messages; (6) provides communications interface processors at all missile warning sensors and command centers; (7) provides an alternate missile warning center. The program also provides Air Force Space Command (AFSPC) with funding needed to acquire communications and computer equipment in support of US Space Command (USSPACECOM) command centers and sensor systems; AFSPC Base Level Switching systems; the Defense Message System (DMS) and Base Network Control Center (BNCC); USSPACECOM Mobile Consolidated Command Center (formerly known as CINC Mobile Alternate Headquarters (CMAH)); and the Cheyenne Mountain Training System (CMTS).</p> <p>1. CHEYENNE MOUNTAIN UPGRADE (CMU): FY97 provided for continued Interim Contractor Support (ICS) for Granite Sentry hardware maintenance until user organic capability is in place 1st Qtr/FY98. No FY99 funding is requested.</p> <p>2. MOBILE CONSOLIDATED COMMAND CENTER (MCCC): The Mobile Command and Control System (MCCS) is the acquisition and integration of automated data processing equipment supporting the MCCC. The MCCC provides mobile, austere capabilities to execute NORAD/USSPACECOM missions in the event the CMC becomes inoperable. The MCCS provides a core communication and mission support processing system and consists of an integrated mixture of Government-furnished Equipment (GFE) and commercial data processing and communications equipment housed in transportable shelters and interconnected through a Modular Building Block (MBB) databus architecture. FY98 and FY99 will provide funding for the Defense Message System, Global Command and Control System (GCCS), Migration Integrated Database (MIDB), and Survivable Secure Communications Network (SSCN). It will also upgrade current projects such as the Nuclear Planning and execution System (NPES), Ground Nuclear Detonation System Terminal (GNT), Communications Support Processor, and Modular Architecture for the Exchange of Intelligence (MAXI).</p> <p>3. TACTICAL WARNING AND ATTACK ASSESSMENT (TW/AA) COMMUNICATIONS NETWORK AND AFSPC TELECOMMUNICATIONS: This program supports AFSPC-wide acquisition of communications equipment for downward-directed program and command initiatives. This equipment includes: (1) smart multiplexers, (2) base cable plants and fiber optics multiplexers, (3) telephone system memory upgrades and administrative telephone systems not being replaced by the Combat Information Transport System (CITS), (4) Defense Information System Network (DISN) hardware support, (5) administrative communications support for Peterson AFB, CO and Falcon AFB, CO, and (6) command-unique communications equipment to support DMS architecture. FY97 funding procured communications equipment for downward-directed and command initiatives, communications capability for Missile/Space Operations Centers</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: CHEYENNE MOUNTAIN COMPLEX | |
| <p>(MOC/SOC) Command and Control Center, and provided funding for Defense Information Systems Network (DISN) and other bulk-bandwidth initiatives. FY98 and FY99 will provide funding for base infrastructure requirements at multiple AFSPC sites and will support non-core base infrastructure.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT |
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| | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|----------|----------|----------|----------|----------|----------|----------|
| QUANTITY | | | | | | | |
| COST (in thousands) | \$32,989 | \$35,937 | \$33,190 | \$32,442 | \$33,258 | \$27,483 | \$27,538 |

DESCRIPTION:

This program provides for new acquisitions and equipment additions to government-owned computer systems. Items to be purchased are commercially available automatic data processing equipment (ADPE) and include: Desktop computers and associated peripheral devices (keyboards, monitors, printers); file servers; local area networks; gateways; and routers, all from various manufacturers and third-party vendors for management and mission support applications. New systems and system upgrades directly support operational mission requirements. All programs in this line, through the use of specific hardware and software tools, will improve the quality, increase war fighting capability and enhance productivity in support of weapon systems. Funds will support a standard system infrastructure, allowing major commands to purchase computer equipment capabilities and quality networking.

11th SUPPORT WING (11SPTW)

1. HEADQUARTERS INFORMATION TECHNOLOGY (IT) INVESTMENT: FY97-99 funds in this program provide significant infrastructure improvements in many ADPE categories at Headquarters, United States Air Force (HQ USAF). HQ USAF personnel, including the Secretary of the Air Force and the Chief of Staff of the Air Force, will receive office automation systems and computer networks critical to supporting their mission of issuing Air Force directives and coordinating with DoD and the Joint Staff. HQ USAF personnel will receive computer systems which meet increased office automation needs. They will be afforded high quality, high speed connections to classified and unclassified networks such as the Internet and the Secure Internet Protocol Routed Network (SIPRNET). HQ USAF personnel will also receive centralized services such as business-quality electronic mail and network management through programs such as Network File Sharing System. Other investments include World Wide Web services, remote computing services, and video teleconferencing. Lack of funding in this program will prevent the Air Force Pentagon Communications Agency (AFPCA) from providing proactive solutions to ADPE requirements. A lack of procurement funding in this area will greatly increase the amount of operations and maintenance funding needed to keep HQ USAF in business using substandard equipment.

2. HEADQUARTERS MAINFRAME SYSTEMS SUPPORT: Funds in this program will allow the Air Force Pentagon Communications Agency to maintain a viable data services and data warehousing environment at HQ USAF. FY97 funds provided upgrades to the operating systems and the communications gateways to other systems. FY98 funds will allow the addition of Disk Array Storage Device (DASD) units and the purchase of a magnetic tape silo for the Consolidated Computer Facility (CCF). This hardware will make mainframe data and applications more readily available to HQ USAF members. FY99 funds will provide for the upgrade of the mainframe application software running on these systems. These new operating systems provide greater interoperability with other Pentagon systems and networks. When installed, these combined systems will provide faster communications, more memory, more storage space, and faster processing. They will also require less floor space and fewer operating expenses. A lack of procurement funding in this program will require a greater expenditure of operations and maintenance funds to maintain the aging mainframes. Failure to improve existing mainframe systems at HQ USAF will jeopardize the sustainment of mission-critical Air Force data. The replacement of existing systems will directly address the Year-2000 problem that is anticipated in many government data centers. Without capital investments in the data center, the Air Force will not be able to provide a viable data

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT |
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environment at HQ USAF into the next century.

3. SECRETARY OF THE AIR FORCE FINANCIAL MANAGEMENT (SAF/FM) FINANCIAL INFORMATION RESOURCES SYSTEM (FIRST): Funds in this program will provide for the modernization of the budgeting systems throughout the entire Air Force. Systems such as the Automated Budget Interactive Data Environment System (ABIDES), the Command Budget Accounting System (CBAS), and MicroBAS will be replaced by FIRST. FY98 funds will purchase hardware to be deployed as a central system in the Pentagon. In the future, geographically-dispersed Air Force agencies and major commands will connect to the system. FY99 funding will continue to modernize hardware and software to provide interaction among budget, accounting, and other functionally-related environments, including program data cost modeling, Congressional tracking, and execution analysis. A lack of procurement funding in this program will prevent the Air Force from fixing an antiquated system for planning, programming, budgeting, and executing fiscal authority.

4. NATIONAL MILITARY COMMAND CENTER (NMCC): FY97-99 funds in this program provide capital investment in new and updated ADPE for the National Command and Control System (NCCS) in the NMCC. The NCCS supports the Joint Staff and the National Command Authorities with real-time crisis decision-making information. Specifically, FY97-99 funds upgrade the existing Video Recording Facility, which is currently failing to provide DOD's top decision makers with adequate audiovisual support. Also, funds provide fused tactical displays for increased integration of related information. Failure to provide funds in this area will weaken the national defense by limiting information delivery to the National Command Authorities.

AIR COMBAT COMMAND (ACC)

5. BASE OPERATIONS: FY97-99 funds will provide additional graphics systems and workstations in support of the Part Task Trainer (PTT) program. These low cost PTTs provide aircrews (student pilots and experienced veteran pilots) with the opportunity to train in the classroom, thereby utilizing the actual aircraft sortie time more effectively, efficiently and safely, as well as increasing/maximizing training effectiveness. Organic assembly of these trainers will allow for a more timely and cost-effective response to training requirements than having private industry produce small numbers of low-cost training devices.

AIR EDUCATION AND TRAINING COMMAND (AETC)

6. ADVANCED TRAINING SYSTEM (ATS): ATS provides for a broad set of automation tools to allow technical and medical service training wings to do their jobs more efficiently and effectively. These funds procure desktop computers, multi-user computer systems, local area networks (LANS), printers, scanners, and associated peripheral equipment to equip six technical training groups (TTG) and the headquarters. AETC incurred a personnel reduction of 323 positions to fund the implementation of ATS. FY97-99 funds will procure computer hardware and LANS for TTGs at Lackland AFB, TX and Vandenberg AFB, CA.

7. AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) EDUCATION AND RESEARCH SYSTEM (EARS): Provides for purchase of communications-computer equipment to meet AFIT's requirements. This program consists of the acquisition of computer systems, ranging from workstations to super mini-computers which are networked together to provide educational computer support. It provides computing resources in support of all students, faculty, and staff applications except specialized laboratory processing and those acquisitions requiring very large computing power satisfied only by super-computer class

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | |
| <p>machines. This program provides AFIT with state-of-the-art computer systems that are necessary to avoid AFIT's dependency on outside organizations for computer support. Purchases for FY97 included high speed network upgrades, network file server (NFS) replacement, Microsoft Windows NT-Based E-Mail System, and CD-ROM servers, network management tools, and back-up storage and archive systems. Acquisitions for FY98 and FY99 will consist of additional high speed network upgrades, central and distributed scientific workstation upgrades, replacement of obsolete central printers, and completion of NFS replacement.</p> <p>8. EDUCATION AND TRAINING TECHNOLOGY APPLICATIONS PROGRAM: This program provides innovative applications of commercial off-the-shelf, state-of-the-art technologies in the education and training arena. It allows AETC managers the opportunity to prioritize potential applications according to needs identified through the Mission Area Planning Process. The implementation of these systems increases training efficiency as well as preparing units to fully utilize new information technologies such as the Internet for the betterment of education and training. FY97-99 funds continue procurement of computer training hardware to support technology applications related to distance learning and virtual reality.</p> <p>9. 333rd TRAINING SQUADRON (TS) TRAINING TECHNOLOGY REFRESHMENT/EXPANSION: This program provides the latest technology and innovations for computer hardware and computer software for the basic and advanced Communications Officer Training for Air Force and international students at Keesler AFB, MS. With the continued growth of computer technology, this program allows AETC managers to prioritize new computer developments for inclusion in state-of-the-art training. FY99 funds will provide increased training efficiency through the replacement of outdated equipment.</p> <p>10. AIRBORNE WARNING & CONTROL SYSTEM (AWACS): FY99 funding for this program provides for the maximum utilization of modeling and simulation training devices to increase AWACS crew coordination and produce mission ready graduates for the Combat Air Forces (CAF). Funding provides additional consoles to integrate the Air Battle Management trainees and the Air Surveillance Technician trainees with the Weapon Director trainees. This system will be fielded at 325th Training Squadron at Tyndall AFB, FL.</p> <p>11. OFFICER TRAINING SCHOOL (OTS) AUDIOVISUAL SYSTEM: FY99 funding provides for purchase and installation of audiovisual equipment in a new MILCON academic facility scheduled for completion in September 1999. FY99 funding is essential to ensure timely award of contracts for ordering and staging equipment and for scheduling contractor installation to ensure audiovisual systems are operational when MILCON is complete. Equipment is essential for providing external connectivity to Air University television and for internal distribution of audiovisual signals supporting 42 classrooms, two auditoriums, and three conference rooms. OTS currently shares academic facilities with other Air University schools and has no audiovisual equipment to support requirements in the new MILCON facility. Without this equipment, OTS cannot conduct training which will delay building occupancy until equipment is procured, installed and operational.</p> <p>AIR FORCE MATERIEL COMMAND (AFMC)</p> <p>12. COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS): CEMS is an information storage and retrieval system essential to effectively manage over 400,000 critical parts in the Air Force's large fleet of 22,000 active turbine engines. CEMS Increment IV is an invaluable tool used at base level to discover, diagnose, and prevent engine problems. The number of CEMS IV users is growing all the time as older aircraft are being re-engined or replaced by</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | |
| <p>newer aircraft. Due to the age and nature of the CEMS IV software, a specially configured personal computer is required to interface with other computers in the CEMS IV system and with computers connected to other databases. These special computers support field users both at their home base and while deployed. Currently there is a backlog of over 100 bases requiring initial purchase of new equipment to run CEMS IV and a backlog of 107 bases requiring modernization of older equipment to reduce overall costs. FY97-99 funds provide for continued CEMS IV base activations, miscellaneous equipment in support of CEMS direct line reporting and interfaces to Core Automated Maintenance System (e.g., modems, communication software, serial cards for microcomputers, cables and similar equipment).</p> | | |
| <p>13. EMBEDDED (COMPUTER RESOURCES) SUPPORT IMPROVEMENT PROGRAM (ESIP): ESIP, through the use of specific hardware and software tools, will improve the quality and productivity of weapon system software and reduce an increasing backlog of weapon system software requirements. ESIP is currently divided into two primary domains or tasks: Advanced Research & Development, Air Force Research Lab (AFRL/IETA), Wright Patterson AFB, OH, and the Software Technology Support Center (STSC), Hill AFB, UT. Primary tasks supported through Wright Labs are: Virtual Test Station (VTS), Automated Validation (AutoVal), Automated Avionics Software Testing (AAST), A Digital Avionics Methodology Schema (ADAMS), and Low-Cost Interactive Stimuli-Generating Test Station (LISTS). Primary tasks supported through AFRL are: On-Line Services, Technology Evaluation and Demonstration, Technology Consulting, and CrossTalk Publication Systems. Funds are required to procure equipment for software tool evaluation of hard, real-time modules and components. Standard configuration off-the-shelf hardware does not fulfill the requirements dictated by these functions. This new equipment will support software engineering, development, and test of operational weapon system software and support equipment. FY98-99 funds continue procurement of a wide range of special configurations of mini/micro computers and commercial/peculiar hardware devices essential for weapon system support.</p> | | |
| <p>14. F-117A COMPUTER SUPPORT: FY97-98 funding continues procurement of computers and associated peripheral equipment in support of depot functions for the F-117 aircraft. Specifically, funds will buy two Silicon Graphics RE-3 computer platforms for the F-117A Hot-Mockups (HMUs). No FY99 funding requested.</p> | | |
| <p>15. LOGISTICS DATA INTEGRATION SYSTEM (LOGDIS): LOGDIS provides users with a standard electronic mail system and with world-wide access to multiple dissimilar host computers via user friendly interfaces. There are currently 33,000 LOGDIS users with systems at HQ Air Force Materiel Command, five Air Logistic Centers (ALCs), Aerospace Maintenance and Regeneration Center (AMARC), Cataloging and Standardization Center (CASC), and dial-in access for HQ Pacific Air Forces and HQ United States Air Forces in Europe. FY97-99 funds will provide additional hardware required to take advantage of available client/server groupware technologies.</p> | | |
| <p>16. WEAPON SYSTEM MANAGEMENT INFORMATION SYSTEM (WSMIS): WSMIS provides an automated logistics decision support system to ensure that USAF weapon systems and combat forces can meet their wartime taskings as well as peacetime operating requirements. WSMIS provides an effective and responsive system giving improved logistics support to AFMC and other DoD activities during contingencies. Hardware acquisitions will enable AFMC to increase the effectiveness and efficiency of this support. FY97-99 funds procure computer hardware and associated peripheral equipment for the development and transition of the Readiness Spares Packages (RSP), Computation and Assessment System (CAS), and the Supportability Analysis Visibility (SAV) portions of WSMIS modules to a common processing environment.</p> | | |

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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | |
| <p>17. TAILORED INTELLIGENCE MATERIALS PRODUCTION PROGRAM (Formerly Target Materials Production): FY97-99 funds continue procurement of automated equipment to include workstations, local area networks, software, peripherals, and laser printers to replace/update the current manpower intensive means of producing target materials for aircrew mission planning and execution. Without this equipment, aircrews worldwide will lack the necessary intelligence data for mission planning thus subjecting aircrews and aircraft to increased risk and decreased effectiveness. Intelligence workstations capable of supporting virtual intelligence production and applications are necessary to adequately support warfighter needs. Collection, processing, application/production, and dissemination of intelligence data through a seamless electronic environment is essential in supporting current, planned, and future weapons systems needs.</p> <p>18. RDT&E SUPPORT COMPLEX (RSC) UPGRADES: These RSC upgrade efforts improve the consolidated telemetry, tracking, and commanding (TT&C) facility at Kirtland AFB to support SMC/TEO as the space test research and readiness control node and interface to the Air Force Satellite Control Network (AFSCN), in support of SMC, DoD, and other federal agency space system testing. The RSC's organic satellite command system requires constant upgrades. Increases in hardware and software capabilities drive each other in what is referred to as "Spiral Evolution." Routine software upgrades provided as part of standard maintenance agreements can virtually bring the hardware to a standstill. Therefore, regular upgrades of workstations, telemetry processors, and servers are necessary to keep the system running. FY99 funding will procure a new and complete suite of command workstations for integration into the current RSC system. This upgrade will significantly improve the performance of the most heavily used RSC workstations and system responsiveness for satellite commanding.</p> <p>19. EMBEDDED COMPUTER SYS INTEGRATED SUPPORT: Mission critical computer resources embedded computer systems integrated support facility at San Antonio ALC (SA-ALC), TX. is an applied engineer laboratory designed to support prime weapons systems, engines, automatic test systems, equipment and related items. SA-ALC is responsible for providing software maintenance, generation, simulation, and verification for all weapon systems, engines, equipment, and items prime at SA-ALC. At present, SA-ALC supports approximately 8,600 computer software configuration items (CSCIs) represented by about 17,500 computer program identification numbers (CPINS) which cover the software and related documentation. The amount of software being supported has increased by approximately 1,000 CPINS in less than 3 years with increased complexity. The embedded computer system integrated support facility must be equipped to provide this type of support and on-hand systems must be continuously enhanced and upgraded to stay abreast of the expanding technology in the rapidly complex weapons systems, engines, and automated test systems. FY98-99 funding procures various types of commercial-off-the-shelf computer support. FY97 funding for this project was included in P-1 Line #79 Items Less Than \$2 Million/Test Equipment. Funding was realigned to general purpose ADPE because of the type of equipment being procured.</p> <p>AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)</p> <p>20. AFOSI COMPUTER NETWORK: FY97-99 funding continues a phased program to fulfill the automation requirements of the AFOSI in sensitive mission areas such as investigative casework, counterintelligence, anti-terrorism and force projection. These automation enhancements will provide timely and accurate reports and analysis to AFOSI field commanders. Specifically, FY97-99 funding provides upgrades for the Defense Criminal Investigation Organization Information System (DCIOIS), the Defense Counterintelligence Information System (DCIIS), and the AFOSI Digital Imaging System. Additionally, funding provides modernization of AFOSI local area network and video teleconferencing systems.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | |
| <p>AIR FORCE OPERATIONAL TEST & EVALUATION CENTER (AFOTEC)</p> <p>21. OFFICE AUTOMATION: No FY99 funding requested.</p> <p>AIR FORCE PERSONNEL CENTER (AFPC)</p> <p>22. PERSONNEL DATA SYSTEM (PDS): No FY99 funding requested.</p> <p>23. REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT: Included in this program are resources required to support the Regionalization of the Air Force's civilian personnel operations. In 1993, the military services and DoD agencies were directed to develop regional processing centers. This effort is part of the DoD-wide Civilian Personnel Regionalization/Systems Modernization program which provides for a reduction in the number of employees in the civilian personnel career field through the application of increased servicing ratios. Because the manpower reductions have been laid in, the Air Force must deliver regionalized services on time. A more detailed description of the Civilian Personnel Regionalization/Systems Modernization program is included in the Operations & Maintenance, Defense-Wide (O&M, D-W) budget submission of the Defense Civilian Personnel Management Service (DCPMS). The equipment/systems purchased allow the Air Force to accomplish regionalization and servicing ratio goals by reengineering, streamlining, and automating personnel administration and management. Initially, two proof-of-concept regional centers were established in FY95. One center is operated by Air Force Space Command (AFSPC) in Colorado Springs, CO, servicing approximately 8,000 employees at seven locations. The other center is operated by Air Mobility Command (AMC) at Scott AFB, IL, servicing approximately 13,000 employees at 11 locations. The proof-of-concept centers will phase down by the end of FY97 and all operations will be phased to AFPC which will begin servicing to select locations in FY97. The AFPC will provide support to all Air Force civilian employees by FY99. FY97-98 funds purchase computer hardware, to include microcomputers, servers, printers, storage devices, networking support, associated peripheral devices, and software to establish the center and outfit installation-level Civilian Personnel Flights (CPFs). The equipment will support electronic records management systems, several Functional Process Improvements (FPIs), and electronic management of Official Personnel Folders (OPFs). In FY99, the MAISRC-approved (Major Automated Information System Review Council) USAF Regionalization Acquisition Plan provides for the purchase of servers, computers, printers, LANs (local area networks) servers, and network and LAN components.</p> <p>US AIR FORCE ACADEMY (USAFA)</p> <p>24. AIR FORCE ACADEMY COMPUTER SUPPORT: This program provides for the conversion of the Cadet Administrative Management Information System (CAMIS) from the legacy platform to the modernization platform. FY 97-99 funds continue the modernization of CAMIS.</p> <p>UNITED STATES AIR FORCE IN EUROPE (USAFE)</p> <p>25. INTELLIGENCE AUTOMATIC DATA PROCESSING (ADP) EQUIPMENT: This project funds continued equipment upgrades to USAFE intelligence ADP systems and communications network. This architecture is USAFE's force-level ADP system/communications network for analysis and dissemination of</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | |
| <p>intelligence to aircrews throughout the USAFE area of responsibility to support execution of combat/crisis/peacekeeping operations. FY97-99 funds continue the purchase of ADP equipment needed to fulfill this requirement.</p> <p>26. WARRIOR PREPARATION CENTER (WPC): The WPC provides senior battle commanders and their staff the opportunity to train at the operational level of war using interactive computer simulations that replicate as closely as possible, the real-world environment. The WPC extends this training opportunity to our NATO allies. Additionally, WPC supports real-world operations such as Operation Joint Endeavor as well as exercise requirements in remote areas such as Turkey. The WPC's robust training schedule consists of 10-12 exercises/computer assisted events per year, including some world-wide exercises involving up to 9000 personnel. A large portion of WPC workstations, terminals and peripherals are nearing the end of their life cycle and are no longer economical to repair. FY97-99 funds continue procurement of simulation workstations and terminals, satellite communications equipment and peripheral equipment in order to remain technologically sufficient to meet the training needs of USAFE. Failure to obtain the equipment needed will impact on the Air Force's ability to reduce training costs, maintain war fighting capability and support world-wide operations.</p> <p>US STRATEGIC COMMAND (USSTRATCOM)</p> <p>27. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE: The USSTRATCOM unclassified and secret Command Management Local Area Network (LAN) procurement provides all HQ USSTRATCOM users a standard suite of software applications (word-processing-MS Word, spreadsheets-MS Excel, graphical presentations MS PowerPoint, databases-MS Access, electronic mail-MS Exchange) to manipulate the tremendous amount of information that is handled every day. Such data may include, but is not limited to, regulations, operational plans, staff summaries, informational papers, correspondence, personnel data for administrative management, programming or budgeting documents of all types in support of USSTRATCOM/Intelligence, Nuclear War Planning, and command and control (C2) functions. FY98 and 99 funds provide for an ongoing USSTRATCOM requirement for command management and LAN upgrades or improvements in addition to periodic maintenance to provide continued support to senior staff and action officers located at Offutt AFB, NE. The Command Management LAN Network requires upgrades and enhancements to integrate available and emerging technologies. Funding provides additional infrastructure and component upgrades to network file servers, mail servers, and printer servers, as well as stratus servers and standard query language servers and upgrade Gateways for external connectivity.</p> <p>AIR FORCE WIDE (MULTIPLE COMMANDS)</p> <p>28. BATTLELABS: In FY97, the Air Force activated six Battlelabs located at multiple locations designed to measure the worth of innovative operational and logistical concepts. The six Battlelabs are: Air Expeditionary Force Battlelab at Mountain Home AFB, Idaho; Command and Control Battle Management Battlelab at Hurlburt AFB, FL.; Unmanned Air Vehicle Battlelab at Eglin AFB, FL.; Information Warfare Battlelab at Lackland AFB, TX.; Force Protection Battlelab at Kelly AFB, TX.; and the Space Battlelab at Falcon AFB, CO. Included in this prudent initiative are state-of-the-art features to enhance operations. In FY97, Automated Data Processing (ADP) and Video TeleConferencing (VTC) equipment were purchased to provide this enhanced capability. For example, the VTC provides a "virtual" planning cell capability to bring together senior Battlelab officers from diverse geographic locations to coordinate and approve Battlelab initiatives. No FY99 funds requested.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|---|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 11SPTW | | | | | VAR | N/A | (12,337) | VAR | N/A | (18,212) | VAR | N/A | (12,576) |
| 1. HQS IT INVESTMENT | A | | | | | | 8,932 | | | 10,004 | | | 8,014 |
| 2. HQS MAINFRAME SYSTEMS SUPPORT | A | | | | | | 970 | | | 3,407 | | | 3,059 |
| 3. SAF/FM FIRST | A | | | | | | | | | 3,729 | | | 631 |
| 4. NMCC | A | | | | | | 2,435 | | | 1,072 | | | 872 |
| ACC | | | | | | | | | | | | | |
| 5. BASE OPERATIONS | A | | | | VAR | N/A | 523 | VAR | N/A | 262 | VAR | N/A | 270 |
| AETC | | | | | VAR | N/A | (4,779) | VAR | N/A | (4,016) | VAR | N/A | (7,873) |
| 6. ATS | A | | | | | | 2,801 | | | 2,482 | | | 779 |
| 7. AFIT EDUCATION AND RESEARCH SYSTEM | | | | | | | 578 | | | 584 | | | 600 |
| 8. ED AND TRAINING TECHNOLOGY APPLICATIONS PROGRAM | A | | | | | | 1,400 | | | 950 | | | 1,661 |
| 9. 333TS TRNG TECH REFRESH/EXPANSION | A | | | | | | | | | | | | 454 |
| 10. AWACS | A | | | | | | | | | | | | 2,627 |
| 11. OTS AUDIOVISUAL SYSTEM | A | | | | | | | | | | | | 1,752 |
| AFMC | | | | | VAR | N/A | (3,496) | VAR | N/A | (4,637) | VAR | N/A | (5,517) |
| 12. CEMS | A | | | | | | 154 | | | 176 | | | 192 |
| 13. ESIP | A | | | | | | 1,645 | | | 1,997 | | | 2,632 |
| 14. F-117A COMPUTER SPT | A | | | | | | 260 | | | 234 | | | |
| 15. LOGDIS | A | | | | | | 401 | | | 492 | | | 537 |
| 16. WSMIS | A | | | | | | 561 | | | 576 | | | 630 |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|--|---------------|--|--|--|---------|--|---------------|---------|--------------|---------------|------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 17. TAILORED INTELLIGENCE MATERIALS PROD PROG | A | | | | | | 475 | | | 412 | | | 601 |
| 18. RDT&E SUPPORT COMPLEX UPGRADES | A | | | | | | | | | | | | 195 |
| 19. EMBEDDED COMPUTER SYS INTEGRATED SUPPORT | A | | | | | | | | | 750 | | | 730 |
| AFOSI | | | | | | | | | | | | | |
| 20. AFOSI COMPUTER NETWORK | A | | | | VAR | N/A | 190 | VAR | N/A | 95 | VAR | N/A | 91 |
| AFOTEC | | | | | | | | | | | | | |
| 21. OFFICE AUTOMATION | A | | | | VAR | N/A | 202 | | | | | | |
| AFPC | | | | | VAR | N/A | (7,324) | VAR | N/A | (6,240) | VAR | N/A | (3,848) |
| 22. PDS | | | | | | | 644 | | | | | | |
| 23. REGIONALIZATION OF CIV PERS SPT | A | | | | | | 6,680 | | | 6,240 | | | 3,848 |
| USAFA | | | | | | | | | | | | | |
| 24. AFA COMPUTER SPT | A | | | | VAR | N/A | 620 | VAR | N/A | 1,051 | VAR | N/A | 1,582 |
| USAFE | | | | | VAR | N/A | (983) | VAR | N/A | (862) | VAR | N/A | (856) |
| 25. INTEL ADP | A | | | | | | 320 | | | 326 | | | 333 |
| 26. WARRIOR PREP CENTER | A | | | | | | 663 | | | 536 | | | 523 |
| USSTRATCOM | | | | | | | | | | | | | |
| 27. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE | A | | | | | | | VAR | N/A | 562 | VAR | N/A | 577 |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|---|---------------|--|--|--|---------|---|---------------|---------|--------------|---------------|-------------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| AF WIDE (MULTIPLE COMMANDS) | | | | | | | | | | | | | |
| 28. BATTLELABS | A | | | | VAR | N/A | 2,535 | | | | | | |
| TOTAL | | | | | | | 32,989 | | | 35,937 | | | 33,190 |
| REMARKS: | | | | | | | | | | | | | |

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AUTOMATIC DATA PROCESSING EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DA REVI AV |
|--------------------------|------|-----------|-------------------|------------------------|-------------------------|------------|------------------------|-----------------|------------|
| 11SPTW | | | | | | | | | |
| 1. HQS IT INVESTMENT | | | | | | | | | |
| FY97 | VAR | N/A[2] | 11SPTW | C/FP | MULT[1] | JAN 97 | JUL 97 | | |
| FY98 | VAR | N/A[2] | 11SPTW | C/FP | MULT[1] | MAR 98 | JUN 98 | YES | |
| FY99 | VAR | N/A[2] | 11SPTW | C/FP | MULT[1] | MAR 99 | JUN 99 | YES | |
| 2. HQS MAINFRAME SYS SPT | | | | | | | | | |
| FY97 | VAR | N/A[2] | 11SPTW | C/FP | MULT[1] | MAY 97 | AUG 97 | | |
| FY98 | VAR | N/A[2] | 11SPTW | C/FP | MULT[1] | APR 98 | AUG 98 | YES | |
| FY99 | VAR | N/A[2] | 11SPTW | C/FP | MULT[1] | MAR 99 | JUL 99 | YES | |
| 3. SAF/FM FBS INVESTMENT | | | | | | | | | |
| FY98 | VAR | N/A[2] | 11SPTW-SSG/GUNTER | OPT/FP[3] | I-CASE ARLINGTON, VA | FEB 98 | JUL 98 | YES | |
| FY99 | VAR | N/A[2] | 11SPTW-SSG/GUNTER | OPT/FP[3] | I-CASE ARLINGTON, VA | FEB 99 | JUL 99 | YES | |
| 4. NMCC | | | | | | | | | |
| FY97 | VAR | N/A[2] | 11SPTW | OPT/FP[4] | MULT[1] | MAY 97 | AUG 97 | | |
| FY98 | VAR | N/A[2] | 11SPTW | OPT/FP[4] | MULT[1] | JAN 98 | MAR 98 | YES | |
| FY99 | VAR | N/A[2] | 11SPTW | OPT/FP[4] | MULT[1] | JAN 99 | MAR 99 | YES | |
| ACC | | | | | | | | | |
| 5. BASE OPERATIONS | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ ACC | OPT/FP[5] | MULT[1] | MAR 97 | MAY 97 | | |

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AUTOMATIC DATA PROCESSING EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DA REVI AV |
|---------------------------------------|------|-----------|-----------------|------------------------|-------------------------|------------|------------------------|-----------------|------------|
| FY98 | VAR | N/A[2] | HQ ACC | OPT/FP[5] | MULT[1] | MAR 98 | MAY 98 | YES | |
| FY97 | VAR | N/A[2] | HQ ACC | OPT/FP[5] | MULT[1] | MAR 99 | MAY 99 | YES | |
| AETC | | | | | | | | | |
| 6. ATS | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | MAR 97 | MAY 97 | | |
| FY98 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | MAR 98 | MAY 98 | YES | |
| FY99 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | MAR 99 | MAY 99 | YES | |
| 7. AFIT EDUCATION AND RESEARCH SYSTEM | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/ASC | C/FP | MULT[1] | MAR 97 | MAY 97 | | |
| FY98 | VAR | N/A[2] | AFMC/ASC | C/FP | MULT[1] | FEB 98 | APR 98 | YES | |
| FY99 | VAR | N/A[2] | AFMC/ASC | C/FP | MULT[1] | OCT 98 | DEC 98 | YES | |
| 8. ED & TRNG TECH APPLICATIONS PRGM | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | JAN 97 | MAR 97 | | |
| FY98 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | JAN 98 | MAR 98 | | |
| FY99 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | JAN 99 | MAR 99 | YES | |
| 9. 333TS TRNG TECH REFRESH/EXPANSION | | | | | | | | | |
| FY99 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | FEB 99 | MAY 99 | YES | |
| 10. AWACS | | | | | | | | | |

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AUTOMATIC DATA PROCESSING EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | D REVI AV |
|----------------------------|------|-----------|-----------------|------------------------|-------------------------|------------|------------------------|-----------------|-----------|
| FY99 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | FEB 99 | MAY 99 | YES | |
| 11. OTS AUDIOVISUAL SYSTEM | | | | | | | | | |
| FY99 | VAR | N/A[2] | HQ AETC | C/FP | MULT[1] | MAR 99 | JUN 99 | YES | |
| AFMC | | | | | | | | | |
| 12. CEMS | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/SAALC | OPT/FP[7] | SAIC SAN DIEGO, CA | FEB 97 | APR 97 | | |
| FY98 | VAR | N/A[2] | AFMC/SAALC | OPT/FP[7] | SAIC SAN DIEGO, CA | MAR 98 | JUN 98 | YES | |
| FY99 | VAR | N/A[2] | AFMC/SAALC | OPT/FP[7] | SAIC SAN DIEGO, CA | FEB 99 | APR 99 | YES | |
| 13. ESIP | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/ASC | DO/CPFF [9] | SAIC DAYTON, OH | APR 97 | JUN 97 | | |
| FY97 | VAR | N/A[2] | AFMC/ASC | DO/CPFF [10] | TRW DAYTON, OH | JUN 97 | SEP 97 | | |
| FY98 | VAR | N/A[2] | AFMC/ASC | DO/CPFF [9] | SAIC DAYTON, OH | APR 98 | JUL 98 | YES | |
| FY98 | VAR | N/A[2] | AFMC/ASC | DO/CPFF [10] | TRW DAYTON, OH | JUN 98 | SEP 98 | YES | |
| FY99 | VAR | N/A[2] | AFMC/ASC | DO/CPFF [9] | SAIC DAYTON, OH | MAR 99 | JUN 99 | YES | |
| FY99 | VAR | N/A[2] | AFMC/ASC | DO/CPFF [10] | TRW DAYTON, OH | MAY 99 | AUG 99 | YES | |

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AUTOMATIC DATA PROCESSING EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DA REVI AV |
|---|------|-----------|-----------------|------------------------|-------------------------------------|------------|------------------------|-----------------|------------|
| 14. F-117A COMPUTER SUPPORT | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/SMALC | C/FFP | FIELDWORKS, INC EDEN PRAIRIE, MN | JAN 97 | APR 97 | | |
| FY97 | VAR | N/A[2] | AFMC/SMALC | C/FFP | TOSHIBA, AMERICA IRVINE, CA | MAR 97 | APR 97 | | |
| FY98 | VAR | N/A[2] | AFMC/SMALC | C/FFP | UNKNOWN | MAY 98 | AUG 98 | YES | |
| | | | | | | | | | |
| 15. LOGDIS | | | | | | | | | |
| FY97 | VAR | N/A[2] | AFMC/MSG | OPT/IDIQ[8] | BATTELLE COLUMBUS, OH | FEB 97 | APR 97 | | |
| FY98 | VAR | N/A[2] | AFMC/MSG | OPT/IDIQ[8] | BATTELLE COLUMBUS, OH | APR 98 | JUL 98 | YES | |
| FY99 | VAR | N/A[2] | AFMC/MSG | C/FFP | UNKNOWN | FEB 99 | APR 99 | YES | |
| | | | | | | | | | |
| 16. WSMIS | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AFMC | MIPR/FFP | DISA/DMC, DAYTON WPAFB, OH [12] | AUG 97 | SEP 97 | | |
| FY98 | VAR | N/A[2] | HQ AFMC | MIPR/FFP | DISA/DMC, DAYTON WPAFB, OH [12] | APR 98 | JUL 98 | YES | |
| FY99 | VAR | N/A[2] | HQ AFMC | MIPR/FFP | DISA/DMC, DAYTON WPAFB, OH [12] | JAN 99 | APR 99 | YES | |
| | | | | | | | | | |
| 17. TAILORED INTELLIGENCE MATERIALS PROD PROG | | | | | | | | | |

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AUTOMATIC DATA PROCESSING EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DA REVI AV |
|--|------|-----------|-----------------|------------------------|-------------------------------|------------|------------------------|-----------------|------------|
| FY97 | VAR | N/A[2] | AFMC/OOALC | C/FP | SUN MICRO SYS DEWITT, NY | APR 97 | JUN 97 | | |
| FY98 | VAR | N/A[2] | AFMC/OOALC | C/FP | UNKNOWN | MAR 98 | MAY 98 | YES | |
| FY99 | VAR | N/A[2] | AFMC/OOALC | C/FP | UNKNOWN | MAR 99 | MAY 99 | YES | |
| 18. RDT&E SUPPORT COMPLEX UPGRADES | | | | | | | | | |
| FY99 | VAR | N/A[2] | AFMC/SMC | OPT/CPAF [11] | LMWDL SUNNYVALE, CA | JAN 99 | MAR 99 | YES | |
| 19. EMBEDDED COMPUTER SYS INTEGRATED SUPPORT | | | | | | | | | |
| FY98 | VAR | N/A[2] | AFMC/OOALC | C/FP | UNKNOWN | APR 98 | JUN 98 | YES | |
| FY99 | VAR | N/A[2] | AFMC/OOALC | C/FP | UNKNOWN | JAN 99 | MAR 99 | YES | |
| AFOSI | | | | | | | | | |
| 20. AFOSI COMPUTER NETWORK | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AFOSI | OPT/FP[6] | TECH COMM CORP CONCORD, MA | DEC 96 | JUL 97 | | |
| FY98 | VAR | N/A[2] | HQ AFOSI | OPT/FP[6] | TECH COMM CORP CONCORD, MA | APR 98 | JUL 98 | YES | |
| FY99 | VAR | N/A[2] | HQ AFOSI | OPT/FP[6] | TECH COMM CORP CONCORD, MA | NOV 98 | JAN 99 | YES | |
| AFOTEC | | | | | | | | | |
| 21. OFFICE AUTOMATION | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AFOTEC | C/FP | MULT[1] | JUN 97 | SEP 97 | | |

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
AUTOMATIC DATA PROCESSING EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DA REVI AV |
|-------------------------------------|------|-----------|-----------------|------------------------|-------------------------|------------|------------------------|-----------------|------------|
| AFPC | | | | | | | | | |
| 22. PDS | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AFPC | OPT/FP[5] | MULT[1] | NOV 96 | APR 97 | | |
| 23. REGIONALIZATION OF CIV PERS SPT | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AFPC | OPT/FP[5] | MULT[1] | NOV 96 | JAN 97 | | |
| FY98 | VAR | N/A[2] | HQ AFPC | OPT/FP[5] | MULT[1] | NOV 97 | JAN 98 | | |
| FY99 | VAR | N/A[2] | HQ AFPC | OPT/FP[5] | MULT[1] | NOV 98 | JAN 99 | YES | |
| USAFA | | | | | | | | | |
| 24. AFA COMPUTER SPT | | | | | | | | | |
| FY97 | VAR | N/A[2] | USAFA | C/FP | MULT[1] | DEC 96 | FEB 97 | | |
| FY98 | VAR | N/A[2] | USAFA | C/FP | MULT[1] | JAN 98 | FEB 98 | | |
| FY99 | VAR | N/A[2] | USAFA | C/FP | MULT[1] | DEC 98 | FEB 99 | YES | |
| USAFE | | | | | | | | | |
| 25. INTEL ADP | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ USAFE | C/FP | MULT[1] | DEC 96 | APR 97 | | |
| FY98 | VAR | N/A[2] | HQ USAFE | C/FP | MULT[1] | FEB 98 | JUN 98 | YES | |
| FY99 | VAR | N/A[2] | HQ USAFE | C/FP | MULT[1] | FEB 99 | MAY 99 | YES | |
| 26. WARRIOR PREP CENTER | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|-----------------|--|--------------------------|------------|------------------------|------------------------|-----------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | D REVI AV | |
| FY97 | VAR | N/A[2] | HQ USAFE | C/FP | GTE WARNER-ROBINS, GA | FEB 97 | MAY 97 | | | |
| FY98 | VAR | N/A[2] | HQ USAFE | OPT/FP | GTE WARNER-ROBINS, GA | FEB 98 | MAY 98 | YES | | |
| FY99 | VAR | N/A[2] | HQ USAFE | OPT/FP | GTE WARNER-ROBINS, GA | FEB 99 | MAY 99 | YES | | |
| USSTRATCOM | | | | | | | | | | |
| 27. COMMAND MANAGEMENT LAN NETWORK INFRASTRUCTURE | | | | | | | | | | |
| FY98 | VAR | N/A[2] | USSTRATCOM | C/FP | MULT[1] | FEB 98 | AUG 98 | YES | | |
| FY99 | VAR | N/A[2] | USSTRATCOM | C/FP | MULT[1] | FEB 99 | AUG 99 | YES | | |
| AF-WIDE (MULTIPLE COMMANDS) | | | | | | | | | | |
| 28. BATTLELABS | | | | | | | | | | |
| FY97 (VTC) | VAR | N/A | 11SPTW | ID/IQ | SCITOR, ROSSLYN, VA | AUG 97 | OCT 97 | | | |
| FY97 (ADP) | VAR | N/A | 11SPTW | C/FP | MULT[1] | MAR 97 | JUL 97 | | | |
| REMARKS: | | | | | | | | | | |
| 1. MULTIPLE GSA SCHEDULE CONTRACTORS, INCLUDING ELECTRONIC DATA SYSTEMS (EDS), HERNDON, VA; GENERAL ANALYTICS CORP, MCLEAN, VA; HSF INC, MCLEAN, VA; GTE, LAKE, CA; IBM, BETHESDA, MD; PRC, SAN ANTONIO, TX; TOSHIBA AMERICAN, IRVINE, CA; FGM INC, HERNDON, VA; COMPUTER SCIENCE CORP (CSC), HANOVER, MD; SYSTEMS RESEARCH APPLICATIONS (SRA), ARLINGTON, VA; AND LOGICON TECH, SAN PEDRO, CA. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY. 2. QUANTITIES AND COSTS VARY BASED ON LOCATION AND CONFIGURATION. 3. OPTION TO PREVIOUSLY AWARDED CONTRACT WITH I-CASE CORP, ARLINGTON, VA. 4. OPTIONS TO MULTIPLE CONTRACTORS SPECIALIZING IN ADP HARDWARE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY. 5. OPTIONS TO MULTIPLE STANDARD CONTRACTS INCLUDING DT IV, ULANA, SUPER-MINI, SMSRCR. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY. 6. HQ AFOSI MAKES USE OF MULTIPLE CONTRACTS TO MODERNIZE THEIR COMPUTER SYSTEMS INCLUDING TCC CORP, BOSTON, MA. MULTIPLE AWARD AND DELIVERY DATES ARE | | | | | | | | | | |

| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | |
|--|------|-----------|-----------------|------------------------|---|------------|------------------------|-------------------------------|-----------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | P-1 NOMENCLATURE: AUTOMATIC DATA PROCESSING EQUIPMENT | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | D REVI AV |
| <p>ASSOCIATED WITH THESE CONTRACTS. DATES PROVIDED REPRESENTS DATE OF FIRST AWARD AND FIRST DELIVERY.</p> <p>7. OPTION TO 1996 FIRM FIXED PRICE CONTRACT AWARDED TO SCIENTIFIC APPLICATIONS CORPORATION (SAIC).</p> <p>8. OPTION TO 1993 FIRM FIXED PRICE CONTRACT AWARDED TO BATTELLE MEMORIAL INSTITUTE.</p> <p>9. DELIVERY ORDER OPTION TO SAIC CONTRACT OF JUNE 1996.</p> <p>10. DELIVERY ORDER OPTION TO TRW CONTRACT OF SEP 1996.</p> <p>11. OPTION TO 1996 COST PLUS AWARD FEE CONTRACT (CPAF) AWARDED TO LOCKHEED MARTIN WESTERN DEVELOPMENT LABORATORY (LMWDL).</p> <p>12. AFMC CONTRACTS THROUGH DISA/DMC TO MULTIPLE VENDORS.</p> | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AF GLOBAL COMMAND AND CONTROL SYSTEM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$9,830 | \$7,079 | \$5,819 | \$5,806 | \$5,783 | \$5,851 | \$5,871 |
| DESCRIPTION: | | | | | | | | |
| <p>The Air Force Global Command & Control System (AFGCCS) program provides the common Air Force infrastructure necessary to pass Air Force command and control (C2) data among commands, their components, and the joint Global Command and Control System (GCCS). This program procures GCCS networking components, servers, workstations, and associated peripherals; and integrates GCCS at AF supported Commander In Chiefs (CINCs), HQ USAF, MAJCOM headquarters, Numbered Air Forces, Wings, Air National Guard (ANG), Air Force Reserve (AFR) and remote sites to establish initial and full operational capability. These efforts provide a flexible open-systems, distributed C2 architecture necessary to support the client/server-based DoD GCCS. AFGCCS provides computer and communications equipment at Air Force GCCS locations.</p> | | | | | | | | |
| <p>1. AIR FORCE SYSTEMS NETWORKING (AFSN): AFSN was previously called the Air Force Command and Control Network (AFC2N). AFSN prepares a site for GCCS operations by installing and upgrading a site's classified C2 network through extensive use of commercial-off-the-shelf (COTS) technology that adheres to the Air Force command, control, communications and computer (AFC4) building codes and standards. The classified communications infrastructure of the Major Command (MAJCOM) C2 facilities (e.g. command posts) will be modernized by installing state-of-the-art networking components for improved interoperability, data throughput, and system security. Each site will comply with current AF and DoD network initiatives by having a standardized interface among AF base level classified C2 networks, AF base level network control centers, and the joint DISA secret network (SIPRNET).</p> | | | | | | | | |
| <p>2. AF GLOBAL COMMAND AND CONTROL SYSTEM (AFGCCS) MODERNIZATION: This funding procures and installs AFGCCS at required AF supported Commander In Chiefs, Air Force, ANG and AFR sites. It also upgrades or replaces C2 communications and computer systems to modernize logistically unsupportable MAJCOM C2 systems and capitalize on AFSN and AFGCCS improvements.</p> | | | | | | | | |
| <ul style="list-style-type: none"> - FY97 funds upgraded C2 LANs and improved data throughput at 97 locations; and fielded GCCS hardware for the Air Mobility Command, US Space Command, US Central Command, Air Force Special Operations Command, Air National Guard (ANG) and Air Force Reserves (AFR). - FY98 funds initial network infrastructure for 85 new sites; continues fielding GCCS hardware at MAJCOM and ANG locations; expands the GCCS architecture to include new functional users on each base, and provides technical refreshment of fielded hardware. - FY99 funds initial network infrastructure for 49 new sites; continues to field GCCS hardware at MAJCOM and ANG locations; expands the GCCS architecture to include new functional users on each base; and provides technical refreshment of fielded hardware. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$6,964 | \$9,057 | \$7,844 | \$10,363 | \$8,417 | \$8,780 | \$9,121 |
| <p>DESCRIPTION: Air Mobility Command (AMC) supports national power projection force deployments and time sensitive logistics requirements. To perform this mission, AMC requires an effective Mobility Command and Control (C2) system that provides for efficient centralized management of the entire US strategic mobility fleet. Base command, control, communications and computers (C4) infrastructure will provide the fiber optical backbone for base-wide multi-media connectivity to accomplish AMC's tasks.</p> <p>1. GLOBAL COMMAND AND CONTROL (C2) ARCHITECTURE: These funds continue AMC's integrated upgrade of command and control systems. Following are the specific details of FY97-99 AMC procurement.</p> <p>A. OBJECTIVE WING COMMAND POST (OWCP): OWCP funding provides for standardization and upgrades to all AMC wing-level command, control, computer and communications (C4) systems and enroute command and control (C2) center functions. Currently, a typical AMC base has several round-the-clock C2 center functions, each occupying a different facility on the base, e.g., aerial port terminal operations, maintenance control, mobility operations, airfield operations, etc. At each of the 24 mobility bases, the OWCP will standardize and upgrade C4 systems to facilitate the consolidation of C2 functions into one central C2 facility. FY97-99 funding provides this standardization and upgrade at two bases per year.</p> <p>B. LAN: FY97-99 funding continues procurement of network equipment at each AMC base/unit to provide command-wide intra-building networking infrastructure in support of Air Force systems such as the Defense Message System (DMS), Combat Information Transport System (CITS), Global Combat Support System (GCSS) and other AMC systems such as Command and Control Information Processing System (C2IPS), OWCP, etc.</p> <p>C. ADVANCED COMPUTER FLIGHT PLAN (ACFP): The ACFP is a user-friendly, menu-driven, computer-generated flight planning system. It is a C2 program used to generate wind optimized flight plans for all major commands. Funding for FY98 and FY99 is required to upgrade the hardware platform to ensure compatibility with other AMC managed C2 programs. Funding for the platform and database upgrade will procure hardware with associated software and warranties.</p> <p>D. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): The DSATCOM program is the primary acquisition support program for deployed Air Mobility Command Tanker Airlift Control Element (TALCE) and Mission Support Team (MST) C2 operations. Program consists of various procurement efforts to enhance initial and intra-theater deployed voice and data communications connectivity. Resources directly support Command and Control (C2) of, and In-Transit Visibility (ITV) over, deployed and en route personnel, aircraft, and cargo. FY98 funds used to integrate new UHF SATCOM radios into Mobility Air Reporting and Communications (MARC) system in order to maintain compliance with military standards. Additionally, it procures new robust, lightweight, Tri-band SHF SATCOM terminals and associated modern equipment and Deployable, Rapidly Assembled Shelter (DRASH) Systems. FY99 funds continue the procurement of Tri-band Super High Frequency (SHF) SATCOM systems and DRASH systems.</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL | |
| <p>2. Air Force Special Operations Command (AFSOC) MOBILITY COMMAND & CONTROL</p> <p>A. AIRFIELD SUPPORT EQUIPMENT: This funding provides equipment for Combat Control Teams (CCTs) (runway support equipment, weather equipment, radios, site survey equipment and personal CCT equipment) to ensure successful accomplishment of the ground-to-air interface across the conflict and air mobility mission spectrum. CCTs are responsible for the proper set up, siting, and operation of critical navigational aid equipment in a designated combat assault/drop zone. FY97/98 funds procure new portable battery operated infrared (IR) runway lighting to support night air operations. Additionally, funds will procure weather equipment to collect accurate local weather conditions at the assault/drop zone for real-time updates to enroute aircraft. New communications equipment, integrating several operational modes, will reduce the overall combat load of the CCT and will enhance their ability to accomplish military standard (MIL-STD) high frequency (HF) communications with C-130, C-141, and C-17 aircraft enroute to assault zones. Funding will also procure digital cameras, laser range finders, and lap top computers to generate digitized site survey products. Lastly, procurement of survival transceivers will provide CCT's personal communications for CCT's in emergency rescue situations. No FY99 funding requested.</p> <p>B. TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM: The Tactical C2 Program provides funds for the purchase of new and enhanced communications systems and essential equipment which are required for Special Tactics Teams (STT) (including pararescue) to provide C2 to the furthest reaching elements of Air Force Special Operations Command's (AFSOC) C2 structure. STTs input intelligence, weather and assault zone assessments into AFSOC's C2 network and receive/relay mission taskings. As the forward site C2 and air traffic control element, STTs provide the DoD with the flexibility to conduct airdrops, assault landings and use austere airfields. FY97/98 funds purchase various devices to support STT missions: (1) ultrahigh frequency (UHF) Satellite Communication (SATCOM) radios which meet JCS mandated narrowband and demand assigned multiple access (DAMA) standards; (2) new high frequency (HF) portable radios with automatic link establishment (ALE) to allow communications within the AFSOC's C2 network in the automatic mode; and (3) Multiband, Multimode Beacons (MMB), which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations. No FY99 funding requested.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY COMMAND AND CONTROL | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. GLOBAL COMMAND AND CONTROL ARCHITECTURE | | | | | | | | | | |
| A. OWCP | | | | | | | | | | |
| FY97 | 2 [2] | N/A [3] | HQ AMC | OPT/FFP [1] | SIEMENS ROLM VIENNA VA | FEB 97 | AUG 97 | | | |
| FY98 | 2 [2] | N/A [3] | HQ AMC | OPT/FFP [1] | SIEMENS ROLM VIENNA VA | FEB 98 | MAR 98 | YES | | |
| FY99 | 2 [2] | N/A [3] | HQ AMC | OPT/FFP [1] | SIEMENS ROLM VIENNA VA | FEB 99 | MAR 99 | YES | | |
| B. LAN | | | | | | | | | | |
| FY97 | VAR[5] | N/A [5] | HQ AMC | OPTION/FP [4] | MULT [4] | JAN 97 | MAR 97 | | | |
| FY98 | VAR[5] | N/A [5] | HQ AMC | OPTION/FP [4] | MULT [4] | OCT 97 | DEC 97 | YES | | |
| FY99 | VAR[5] | N/A [5] | HQ AMC | OPTION/FP [4] | MULT [4] | OCT 98 | DEC 98 | YES | | |
| C. ACFP | | | | | | | | | | |
| FY98 | VAR[5] | N/A [5] | HQ AMC | C/CPAF | ITS, INC. HAMPTON, VA | OCT 97 | JAN 98 | | | |
| FY99 | VAR[5] | N/A [5] | HQ AMC | OPT/CPAF [8] | ITS, INC. HAMPTON, VA | OCT 98 | JAN 99 | YES | | |
| D. DSATCOM | | | | | | | | | | |
| FY98 | VAR[5] | N/A[5] | HQ AMC | MULT [7] | MULT [7] | JAN 98 | JUN 98 | | | |
| FY99 | VAR[5] | N/A[5] | HQ AMC | MULT [7] | MULT [7] | JAN 99 | JUN 99 | YES | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$16,919 | \$14,411 | \$26,965 | \$31,575 | \$32,986 | \$25,862 | \$25,230 |
| DESCRIPTION: | | | | | | | | |
| <p>This program procures and installs physical security equipment to protect aircraft, missiles, nuclear weapons, and other critical war fighting resources under the control of Air Force major commands. The program objectives are to replace older generation intrusion detection systems at fixed sites, provide relocatable sensors for use on Air Force flightlines, respond to transient security threats, and provide tactical sensors and communications equipment for air base defense forces.</p> | | | | | | | | |
| <p>1. AIR BASE DEFENSE SENSORS: FY97-99 funds the Air Force tactical sensor program which will support Air Base Defense requirements to enable security forces to detect intrusions and assess targets. The total Air Force requirement is for 826 Tactical Automated Security Systems (TASS) kits to support two major theater wars and provide robust force protection capabilities world-wide. TASS kits can be tailored into Squad, Flight, and Headquarters kits, each containing varying numbers of active, passive, telescope infrared, and breakwire sensors; communications modules and associated support equipment. In November 1996, an FY97 sole source contract was awarded by Electronic Systems Center (ESC) at Hanscom AFB to provide \$48M of TASS equipment, based upon an urgent and compelling need to immediately fulfill force protection requirements at seven (7) Forward Operating locations in Southwest Asia. The contract includes \$6.8M from this P-1 line and \$41M from FY97 "Force Protection/Anti-Terrorism" P-1 line #52. FY97/98/99 funds procure 66/68/53 kits from this P-1 line, respectively, with the balance of the Air Force requirements deferred to the outyears.</p> | | | | | | | | |
| <p>2. AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS: These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical ALCM security command and control subsystems that are no longer supportable. FY97/98/99 funding provides for equipment integration and upgrades for the Intermediate Maintenance Facilities (IMF's) at Fairchild AFB, WA, and the IMF's and intermediate munitions storage (IMS) facilities at Barksdale AFB, LA, and Minot AFB, ND.</p> | | | | | | | | |
| <p>3. ANTI-TERRORISM: Antiterrorism funds continue to procure intrusion detection and assessment equipment to protect overseas resources that may be soft targets for terrorist attacks. Equipment includes portable tactical sensors, thermal imagers, fiber optic sensors, and other state-of -the-art detection and assessment equipment. Funds are used synergistically with other Air Force programs to achieve adequate levels of protection. FY97/98/99 funds purchase portable security equipment to be used in the Pacific, European, and Southwest Asian theaters to respond to changing and evolving threat scenarios. FY97 funds also procured a closed circuit TV and under vehicle surveillance system for Onizuka AS, CA.</p> | | | | | | | | |
| <p>4. BASE PHYSICAL SECURITY SYSTEMS: The Air Force has a continuing need to upgrade and modernize existing physical security systems presently installed at fixed sites worldwide. These systems must be replaced every eight years, on the average, depending on environmental conditions, type of sensor, and availability of spare parts.</p> <p>a. FLIGHTLINE SECURITY: Flightline security equipment reduces significant risk on the Air Force flightlines. Air Force downsizing and aircraft technology advances has resulted in a condition where individual airframes now represent an extremely valuable national power projection capability. However, the security afforded most Air Force aircraft in terms of equipment or manpower has actually declined. In FY96 the Air Force began procurement of flightline</p> | | | | | | | | |
| | | | P-1 ITEM: 50 | | | PAGE NO: 62 | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM | |
| <p>security assessment equipment as part of a new Tactical Automated Security Systems (TASS) contract. TASS includes a variety of sensors to meet a broad range of intrusion detection needs (perimeter, tactical, flightline). Flightline sensors include the use of microwave technology with tunable frequencies for world-wide deployment. FY97/98 funds provide upgrades to nine PACAF flightline security systems. FY99 begins a limited enhancement of high value flightline security across all Major Commands (MAJCOMs) through the acquisition and installation of 31 TASS Flightline kits installed in a semi-permanent configuration.</p> <p>b. FIXED-SITE SECURITY: Fixed-Site Security projects support long term physical security requirements at permanent Air Force installations world-wide. Permanently-based aircraft and missiles, nuclear weapons in depot storage, satellite control facilities, and other key Air Force assets require permanently installed intrusion detection systems (both interior and exterior) and access control systems. These systems must be replaced every eight years on average, depending on environmental conditions, types of sensor and availability of spare parts. Projects are prioritized by MAJCOMs and HQ USAF. The Systems Program Office conducts site surveys, determines appropriate hardware and software solutions, manages the installation, and conducts security systems test and turnover to users. FY97 funds procured video storage systems to correct an assessment deficiency identified at a number of Weapons Storage Area (WSA) locations within CONUS, a WSA upgrade at F.E. Warren AFB, WY and integrated new aircraft parking areas (APA's) into the security system at Whiteman AFB, MO. FY98 will fund the upgrade of both the intrusion detection and advanced entry control (AECS) systems at Minot AFB, ND while FY99 funds will upgrade the intrusion detection system at the Kirtland Underground Munitions Storage Complex (KUMSC) at Kirtland AFB, NM.</p> <p>5. MINUTEMAN SQUADRON SECURITY: These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical Minuteman warhead storage security command and control subsystems that are no longer supportable. FY97-99 funds will purchase equipment for missile security mission upgrades at Malmstrom AFB, MT and Minot AFB, ND.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM |
|---|--|

| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. AIR BASE DEFENSE SENSORS | A | | | | 66 | N/A[1] | 6,819 | 68 | N/A[1] | 7,660 | 53 | N/A[1] | 6,890 |
| 2. ALCM SECURITY SYSTEM | A | | | | VAR[1] | N/A[1] | 3,558 | VAR[1] | N/A[1] | 1,266 | VAR[1] | N/A[1] | 1,297 |
| 3. ANTI-TERRORISM | A | | | | VAR[1] | N/A[1] | 1,170 | VAR[1] | N/A[1] | 876 | VAR[1] | N/A[1] | 896 |
| 4. BASE PHYSICAL SECURITY SYS | | | | | VAR[1] | N/A[1] | (4,855) | VAR[1] | N/A[1] | (4,139) | VAR[1] | N/A[1] | (17,352) |
| A. FLIGHTLINE SECURITY | A | | | | VAR[1] | N/A[1] | 813 | VAR[1] | N/A[1] | 720 | 31 | N/A[1] | 13,681 |
| B. FIXED-SITE SECURITY | A | | | | VAR[1] | N/A[1] | 4,042 | VAR[1] | N/A[1] | 3,419 | VAR[1] | N/A[1] | 3,671 |
| 5. MINUTEMAN SQD SECURITY | A | | | | VAR[1] | N/A[1] | 517 | VAR[1] | N/A[1] | 470 | VAR[1] | N/A[1] | 530 |
| TOTAL | | | | | | | 16,919 | | | 14,411 | | | 26,965 |

REMARKS:

1. QUANTITIES AND UNIT COSTS VARY PER EQUIPMENT CONFIGURATION AT EACH LOCATION.

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. AIR BASE DEFENSE SENSORS | | | | | | | | | | |
| FY97 | 66 | N/A [2] | AFMC/ESC | SS/FFP [3] | TRW [3] CARSON, CA | NOV 96 | FEB 97 | | | |
| FY98 | 68 | N/A [2] | AFMC/ESC | C/FFP | MULT[5] | OCT 97 | JUL 98 | | | |
| FY99 | 53 | N/A [2] | AFMC/ESC | DEL ORD [4,5] | MULT[5] | VAR[4] | VAR[4] | YES | | |
| 2. ALCM SECURITY SYSTEMS | | | | | | | | | | |
| FY97 | VAR[1] | N/A [2] | AFMC/ESC | DEL ORD [4,5] | MULT [5] | VAR[4] | VAR[4] | | | |
| FY98 | VAR[1] | N/A [2] | AFMC/ESC/38 EIG | C/FFP | UNKNOWN | FEB 98 | JUN 98 | YES | | |
| FY99 | VAR[1] | N/A [2] | AFMC/ESC/38 EIG | DEL ORD [4] | UNKNOWN | VAR[4] | VAR[4] | YES | | |
| 3. ANTITERRORISM | | | | | | | | | | |
| FY97 | VAR[1] | N/A [2] | AFMC/ESC | DEL ORD [4,6] | MULT [6] | VAR[4] | VAR[4] | | | |
| FY98 | VAR[1] | N/A [2] | AFMC/ESC/38 EIG | C/FFP | BENECO INDIANHEAD MD | DEC 97 | JUN 98 | | | |
| FY99 | VAR[1] | N/A [2] | AFMC/ESC/38 EIG | DEL ORD [4] BENECO CONTR | BENECO INDIANHEAD MD | VAR[4] | VAR[4] | YES | | |
| REMARKS: | | | | | | | | | | |

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| | P-1 ITEM: 50 | | PAGE NO: 65 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|-----------------|---|--------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 4. BASE PHYSICAL SECURITY SYSTEMS | | | | | | | | | | |
| A. FLIGHTLINE SECURITY | | | | | | | | | | |
| FY97 | VAR[1] | VAR[2] | AFMC/ESC | SS/FFP[3] | TRW [3] CARSON, CA | NOV 96 | FEB 97 | | | |
| FY98 | VAR[1] | VAR[2] | AFMC/ESC | C/FFP | MULT[5] | OCT 97 | JUL 98 | | | |
| FY99 | VAR[1] | N/A [2] | AFMC/ESC | DEL ORD [4.5] | MULT[5] | VAR[4] | VAR[4] | YES | | |
| B. FIXED SITE SECURITY | | | | | | | | | | |
| FY97 | VAR[1] | N/A [2] | AFMC/ESC | OPT/FP[7] | SYS PLAN CORP ARLINGTON, VA | MAR 97 | NOV 97 | | | |
| FY98 | VAR[1] | N/A [2] | AFMC/ESC | OPT/FP [7] | SYS PLAN CORP ARLINGTON, VA | MAR 98 | AUG 98 | YES | | |
| FY99 | VAR[1] | N/A [2] | AFMC/ESC | OPT/FP [7] | SYS PLAN CORP ARLINGTON, VA | JAN 99 | NOV 99 | YES | | |
| 5. MINUTEMAN SQUADRON SECURITY | | | | | | | | | | |
| FY97 | VAR[1] | N/A [2] | AFMC/ESC | DEL ORD [4,5] | MULT [5] | VAR [4] | VAR [4] | | | |
| FY98 | VAR[1] | N/A [2] | AFMC/ESC/38 EIG | C/FFP | BENECO INDIANHEAD MD | DEC 97 | JUN 98 | | | |
| FY99 | VAR[1] | N/A [2] | AFMC/ESC/38 EIG | DEL ORD [4] BENECO CONTRACT | BENECO INDIANHEAD MD | VAR [4] | VAR [4] | YES | | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|--|-------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AIR FORCE PHYSICAL SECURITY SYSTEM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| <p>REMARKS:</p> <p>FOOTNOTES:</p> <p>[1] TYPES AND QUANTITIES OF PHYSICAL SECURITY EQUIPMENT ARE SITE DEPENDENT. SYSTEMS ARE COMPOSED OF MULTIPLE SENSORS AND SENSOR ASSESSMENT EQUIPMENT.</p> <p>[2] UNIT COSTS VARY PER EQUIPMENT CONFIGURATION AT EACH LOCATION.</p> <p>[3] IN FY96, THE AIR FORCE COMPLETED A NEW CONTRACT FOR THE ASSESSMENT SEGMENT (HANDHELD THERMAL IMAGERS) PORTION OF THE TACTICAL AUTOMATED SECURITY SYSTEMS (TASS). IN FY97, DUE TO AN "URGENT AND COMPELLING REQUIREMENT", THE AIR FORCE ISSUED A SOLE SOURCE CONTRACT TO TRW FOR TASS EQUIPMENT FOR SOUTHWEST ASIA.</p> <p>[4] OPTION TO DELIVERY ORDER (DEL ORD) CONTRACTS WHICH ALLOW INDEFINITE DELIVERY/INDEFINITE QUANTITY ORDERS TO BE PLACED BY SITE. MULTIPLE AWARD AND DELIVERY DATES.</p> <p>[5] IN OCT 97 AFMC/ESC AWARDED THREE (3) FIVE YEAR DELIVERY ORDER CONTRACTS (1 LARGE, 2 SMALL BUSINESS) TO TRW, (CARSON CA); EER SYSTEMS, (SEABROOK, MD) AND LAU TECHNOLOGIES, (LITTLETON, MA) RESPECTIVELY; FOR THE AIR FORCE OUT-YEAR FOLLOW-ON TASS SECURITY SYSTEMS PROGRAM THROUGH FY 03.</p> <p>[6] EXAMPLE OF CONTRACTOR: SYSTEMS PLANNING CORP, (ARLINGTON, VA); TRW, (CARSON,CA); EER SYSTEMS, (SEABROOK, MARYLAND) .</p> <p>[7] OPTION TO A FIVE-YEAR, 4TH QTR FY93 DELIVERY ORDER CONTRACT WITH SYSTEMS PLANNING CORP, ARLINGTON, VA,. PRIME CONTRACTOR FOR FIXED SITE SECURITY INSTALLATIONS. LAST YEAR FOR ORDERS IS FY99; NEW CONTRACT WILL BE COMPETITIVELY AWARDED IN FY00.</p> | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: COMBAT TRAINING RANGES | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$10,796 | \$12,771 | \$13,194 | \$17,761 | \$32,711 | \$30,389 | \$29,638 |
| <p>DESCRIPTION: The Combat Training Ranges program procures equipment for Air Force ranges to support training/evaluation of aircrews and operational testing of weapon systems and tactics under simulated combat conditions including air-to-air combat, air-to-ground combat, and electronic warfare. Upgrading range instrumentation systems is the primary purpose of this program. The original range instrumentation systems were known as Air Combat Maneuvering Instrumentation (ACMI) systems and provided real-time monitoring and control of aircraft during large forces exercise training as well as post-mission debriefing and analysis. The second generation systems, capable of handling 36 aircraft simultaneously, are referred to as Measurement and Debriefing Systems (MDS). The next generation upgrade will increase the capacity to 100 high-activity aircraft. In the interim, aging computer systems will be replaced at selected ranges with open architecture systems capable of hosting the latest fielded software upgrades. In addition, security equipment will be added to all Air Force ACMI ranges, encrypting the data link required for training with the Advanced Medium Range Air-to-Air Missile (AMRAAM).</p> <p>1. AIR COMBAT TRAINING SYSTEMS</p> <p style="padding-left: 40px;">a. NATIONAL TRAINING CENTER/AIR WARRIOR (NTC/AW) UPGRADE: The basic NTC/AW program, completed in FY94, was a Congressionally mandated joint program between the Army and Air Force. The Army has upgraded the Range Data Management System (RDMS) capabilities at Fort Irwin, CA, from 700 to 2200 ground participants with potential growth to 4400. An Air Force upgrade of the Air Warrior Measurement and Debriefing System (AWMDS) is critical to compatibility between the two systems. AWMDS is an important training device which provides near real-time feedback to Army and Air Force combatants on the effectiveness of close air support and air defense tactics. FY97 funds were used to upgrade the Air Force part of the NTC/AW system to include ground system hardware and installation costs. No FY99 funding is requested.</p> <p style="padding-left: 40px;">b. ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS): The ADDS program is a joint Air Force/Navy program to provide a cost effective, highly versatile debriefing system that significantly improves aircrew access to MDS debriefing products. The system also provides a remote debriefing capability which dramatically increases utilization rates for Air Force instrumentation ranges. FY98 funds will procure special access ADDS for selected Air Force squadrons. No FY99 funding is requested.</p> <p style="padding-left: 40px;">c. RANGELESS AIR COMBAT TRAINING SYSTEM/JOINT TACTICAL COMBAT TRAINING SYSTEM (RACTS/JTCTS): RACTS/JTCTS will support air combat training/evaluation of aircrews in a rangeless environment under simulated combat conditions, including air-to-air and air-to-ground combat. The RACTS/JTCTS Aircraft Instrumentation System (AIS) will be installed in a P-5 pod. RACTS/JTCTS capabilities will include, but not be limited to, rangeless capabilities, pod-to-pod communication, encrypted data link, real-time kill notification, weapon simulations, and post mission debriefing.</p> <p style="padding-left: 40px;">Alpena ANGB MI -- This first system will be installed at the Alpena Combat Readiness Training Center (CRTC) at Alpena, Michigan. Reference FY96 Appropriations Conference Report 104-344, November 15, 1995, Page 92. FY97 funding will instrument the existing range with a Global Positioning System (GPS) tracking system, and procure ground equipment including an Advanced Display and Debriefing Station, antennas and</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: COMBAT TRAINING RANGES | |
| <p>communication links. Items to be procured will be commercial-off-the-shelf (COTS) equipment. No FY99 funding requested.</p> <p style="padding-left: 40px;">Utah Test and Training (UTTR) -- FY 99 funding will instrument UTTR with a GPS tracking system and procure ground equipment including an Advanced Display and Debriefing Station, antennas and communication links.</p> <p style="padding-left: 40px;">d. AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES: This effort, a "modular" approach to ACMI range upgrades, provides an interim AMRAAM weapons simulation capability for range training. Aging computational and control systems (CCS) and display and debriefing systems (DDS) with high sustainment costs will be replaced with smaller, more capable, efficient open architecture computer systems capable of hosting the latest fielded software upgrades. In addition, security equipment and Global Positioning System (GPS) capability will be added to each range to support an immediate need for AMRAAM training. Security equipment will encrypt the data link needed for AMRAAM training and GPS capability will provide expanded range coverage also needed to accommodate AMRAAM training. The GPS capability will also reduce the number of ground stations needed, reducing sustainment costs.</p> <p style="padding-left: 40px;">FY98 funding will procure selected equipment and installation at the following ranges:</p> <p style="padding-left: 80px;">GULFPORT ANGB MS - - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.</p> <p style="padding-left: 80px;">VOLK FIELD ANGB, WI - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.</p> <p style="padding-left: 80px;">LANGLEY AFB, VA - Will install an AMRAAM software block upgrade to provide GPS tracking, data link encryption, and simulated AMRAAM firing.</p> <p style="padding-left: 80px;">SAVANNAH ANGB, GA - Will replace DDS and install software block upgrades from Navy host CCS (Beaufort SC) to provide GPS tracking, data link encryption and simulated AMRAAM firing.</p> <p style="padding-left: 80px;">ELMENDORF AFB, AK - Will replace CCS and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing. Advanced DDS has already been installed.</p> <p style="padding-left: 80px;">EIELSON AFB, AK (Yukon) - Will replace CCS and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing. Advanced DDS has already been installed, to include the Weapon Scoring System Upgrade.</p> <p>Fy99 funding will continue the ground system equipment upgrades and baseline software at the following ranges:</p> <p style="padding-left: 40px;">TYNDALL AFB, FL - Will replace CCS.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: COMBAT TRAINING RANGES | |
| <p>LUKE AFB, AZ - Will install encryption and AMRAAM simulation devices.</p> <p>e. WEAPONS SCORING SYSTEMS UPGRADE: This effort will upgrade/replace current weapon scoring systems at Combat Air Force (CAF) "backyard" ranges. Antiquated systems, such as the Television Ordnance Scoring System (TOSS), and manual scoring systems will be replaced using commercial off the shelf (COTS) technology. This system will provide the capability to accurately score ordnance day or night, score laser designation points, and record multiple drops from single ship, or single/multiple releases from multiple ship formations. The system shall provide the capability for storing and printing collected data. FY98 and FY99 funds will purchase ground equipment to include computers and equipment to record and display weapons scoring.</p> <p>f. SPECIAL PROJECTS: This effort supports classified projects.</p> | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------------|--|--|---|----------|--------|------------------------|--------|----------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: COMBAT TRAINING RANGES | | | | | |
| PROCUREMENT ITEMS | ID CODE | | | FY1997 | | FY1998 | | FY1999 | |
| | | | | QTY. | COST | QTY. | COST | QTY. | COST |
| 1. AIR COMBAT TRAINING SYSTEMS | | | | VAR | | | | | |
| A. NATIONAL TRAINING CENTER/AIR WARRIOR (NTC/AW) UPGRADE | A | | | | \$6,796 | | | | |
| B. ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS) | A | | | | | | \$4,143 | | |
| C. RANGELESS AIR COMBAT TRAINING SYSTEMS/JOINT TACTICAL COMBAT TRAINING SYSTEM | A | | | | | | | | |
| ALPENA ANGB, MI | | | | | \$4,000 | | | | |
| UTAH TEST & TRAINING RANGE, UT | | | | | | | | | \$5,533 |
| D. ACTS UPGRADES | A | | | | | | | | |
| GULFPORT ANGB, MS | | | | | | | \$ 523 | | |
| VOLK FIELD ANGB, WI | | | | | | | \$ 345 | | |
| LANGLEY AFB, VA | | | | | | | \$ 417 | | |
| SAVANNAH ANGB, GA | | | | | | | \$ 340 | | |
| ELMENDORF AFB, AK | | | | | | | \$3,799 | | |
| EIELSON AFB, AK | | | | | | | \$1,000 | | |
| TYNDALL AFB, FL | | | | | | | | | \$1,700 |
| LUKE AFB,AZ | | | | | | | | | \$2,750 |
| E. WEAPONS SCORING SYSYEMS UPGRADE | A | | | | | | \$2,004 | | \$2,711 |
| F. SPECIAL PROJECTS | | | | | | | \$ 200 | | \$ 500 |
| TOTALS: | | | | | \$10,796 | | \$12,771 | | \$13,194 |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|---|-----------------------------|-------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: COMBAT TRAINING RANGES | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. AIR COMBAT TRAINING SYSTEMS | | | | | | | | | | |
| A. NATIONAL TRAINING CENTER/AIR WARRIOR (NTC/AW) UPGRADE | | | | | | | | | | |
| FY97 | VAR | N/A [1] | AFMC/ASC | C/FFP | COMPTEC FEDERAL BUFFALO, NY | MAR 97 | NOV 98 | | | |
| B. ADVANCED DISPLAY AND DEBRIEFING SYSTEM | | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | OPT/FFP[3] | A.D.T.I. SAN DIEGO, CA | FEB 98 | JUL 98 | YES | | |
| C. RANGELESS AIR COMBAT TRAINING SYSTEM/JOINT TACTICAL COMBAT TRAINING SYSTEM (RACTS/JTCTS) | | | | | | | | | | |
| ALPENA ANGB, MI | | | | | | | | | | |
| FY97 | VAR | N/A [1] | AFMC/ASC | C/FFP | UNKNOWN | MAY 98 | AUG 98 | YES | | |
| UTAH TEST & TRAINING RANGE, UT | | | | | | | | | | |
| FY99 | VAR | N/A [1] | AFMC/ASC | C/FFP | UNKNOWN | DEC 98 | OCT 99 | YES | | |
| D. ACTS UPGRADES | | | | | | | | | | |
| GULFPORT ANGB, MS | | | | | | | | | | |
| FY98 | var | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | FEB 98 | JAN 99 | YES | | |
| VOLK FIELD ANGB, WI | | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | FEB 98 | JAN 99 | YES | | |
| LANGLEY AFB, VA | | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | FEB 98 | JAN 99 | YES | | |
| SAVANNAH ANGB, GA | | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | FEB 98 | JAN 99 | YES | | |
| ELMENDORF AFB, AK | | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | MAY 98 | MAR 00 | YES | | |
| | | | P-1 ITEM: 51 | | | PAGE NO: 72 | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|------|-----------|-----------------|--|-------------------------|------------|-------------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: COMBAT TRAINING RANGES | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| EIELSON AFB, AK | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | MAY 98 | MAY 00 | YES | |
| TYNDALL AFB, FL | | | | | | | | | |
| FY99 | VAR | N/A [1] | AFMC/ASC | C/FFP | UNKNOWN | NOV 98 | JUN 00 | YES | |
| LUKE AFB, AZ | | | | | | | | | |
| FY99 | VAR | N/A [1] | AFMC/ASC | C/FFP | UNKNOWN | NOV 98 | SEP 00 | NO | MAR 98 |
| E. WEAPONS SCORING SYSTEMS UPGRADE | | | | | | | | | |
| FY98 | VAR | N/A [1] | AFMC/ASC | VAR[2] | UNKNOWN | NOV 97 | DEC 00 | NO | FEB 98 |
| FY99 | VAR | N/A [1] | AFMC/ASC | C/FFP | UNKNOWN | NOV 98 | DEC 01 | NO | FEB 99 |
| REMARKS: | | | | | | | | | |
| 1. MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED. 2. DUE TO THE MIXED NATURE OF EQUIPMENT REQUIREMENTS, THERE IS NO SINGLE CONTRACT METHOD AND TYPE OR CONTRACTOR. 3. OPTION TO A CONTRACT AWARDED IN OCTOBER 1991 TO APPLIED DATA TECHNOLOGY, INC., SAN DIEGO, CA. | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$ 0 | \$11,683 | \$1,545 | \$1,094 | \$35,226 | \$22,046 | \$10,482 |
| <p>DESCRIPTION: MEECN systems provide assured communications connectivity between the National Command Authorities (NCA) and the strategic deterrent forces. The Defense Improved Emergency Message Automated Transmission System (IEMATS) Replacement Command & Control Terminals (DIRECT) is a Strategic Nuclear Command and Control (C2) System directly supporting the Chairman of the Joint Chiefs of Staff (CJCS) and the NCA. The Director, Joint Staff, established an urgent and compelling need to field an IEMATS replacement no later than second quarter FY99. DIRECT will provide all current IEMATS requirements, including the build and release of Emergency Action Messages (EAMs), to allow the warfighter to remain responsive to NCA directives. DIRECT will be certified to Top Secret-Single Integrated Operational Plan (SIOP) messaging. FY98 funding will procure and install eight currently funded systems. This funding will procure system hardware for seven nuclear command centers and a software maintenance facility to replace IEMATS and to support the transition from the Automated Digital Network (AUTODIN) to the Defense Message System (DMS). Also, FY97 funding procures all necessary Engineering Change Proposals (ECP) and Engineering Change Orders (ECO) anticipated through production; Type I Training to prepare the initial cadre of users and trainers; and the actual installation and checkout services for each system; and will support the System Program Office (SPO) management of the program. FY99 funding continues to provide for ECPs and SPO management and begins funding for Interim Contractor Support (ICS). ICS is planned following Initial Operational Test & Evaluation (IOT&E) until organic capability is phased in.</p> <p>Research Development Test & Evaluation (RDT&E) funding for MEECN DIRECT is reported in Program Element #0303131F of the Air Force RDT&E Descriptive Summaries.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: C3 COUNTERMEASURES | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$9,092 | \$12,625 | \$10,228 | \$9,947 | \$11,176 | \$9,535 | \$16,543 |
| <p>DESCRIPTION: Air Force Information Warfare (IW) is in its infancy... operationally and doctrinally. The increasing technical sophistication of the AF leads to a dependency on technology which, in turn, may represent potentially crippling vulnerabilities. The Air Force is on the leading edge of this new Cyber Dimension of Air Warfare. A fundamental capability, critical to the conduct of joint warfare, identified in the "Joint Vision 2010" is Information Superiority. IW capitalizes on the growing sophistication, connectivity, and reliance on information technology. IW is any action to deny, exploit, corrupt or destroy the enemy's information and its functions: protecting ourselves against those actions; and exploiting our own military information functions. Command and Control Warfare (C2W) is a warfighting application of IW in military operations. Methods used to conduct information warfare include electronic warfare (EW), psychological operations, military deception, physical attack, information attack, and various security measures. The Air Intelligence Agency (AIA), Air Force Information Warfare Center (AFIWC), and Joint Command and Control Warfare Center (JC2WC) are responsible for IW and C2W operations supporting joint, air component, and/or national objectives. Procurement funds in this program provide the equipment (computer related, communications, and unique intelligence and analysis systems) that is vital to accomplish and support IW and C2W missions. Elements of the program are addressed individually below.</p> <p>1. AIR FORCE INFORMATION WARFARE CENTER (AFIWC) SUPPORT: AFIWC is the AF center of excellence for IW and is under the direction of AIA. AFIWC provides technical assistance to the AF for IW and EW analysis and strategy for combat preparation, planning, and operations and weapon systems development and assessment. In support of AFIWC's main projects, FY97/98/99 funds procure desktop personal computers (PCs), network equipment, uninterruptible power supplies, advanced desktop and deployable workstations, database servers, and varied analysis tools. A brief description of each supported project follows:</p> <ul style="list-style-type: none"> a. ADP UPGRADES: Replaces basic AFIWC internal computer infrastructure and network requirements for administrative and management functions. b. MODELING AND SIMULATION: Conducts AFIWC IW analysis. Permits AFIWC to provide detailed analysis and graphic displays vital to protection of US aircraft and assessment of US EW systems. c. COMMUNICATIONS SECURITY (COMSEC) ASSESSMENT SUPPORT: Monitors friendly unsecured telecommunications to provide USAF commanders an Operations Security (OPSEC) vulnerability assessment of their units. d. RED FORCE: Provides realistic communications and radar jamming to aircrews around the world to prepare aircrews, weapons controllers and C2 personnel to operate in a communications and radar jamming environment. e. TELECOMMUNICATIONS MONITORING AND ASSESSMENT PROGRAM (TMAP): Monitors digital voice, data, facsimile and video in an integrated package. | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: C3 COUNTERMEASURES | |
| <p>f. C2W OPERATIONS SUPPORT (formerly called CONSTANT WEB): Maintains the integrated C2W knowledge base, which was a proven capability in Desert Storm/Desert Shield.</p> <p>g. INFORMATION WARFARE: Supports the integration of C2W decision aids into combat planning and execution cycles.</p> <p>h. OFFENSIVE IW: New FY98 and FY99 initiatives support the Air Force's goal of information superiority. Integrates offensive capability in AF combat and mission rehearsal operations. Supports IW analysis vital to deliver timely AF IW capability for training and combat operations.</p> <p>2. JOINT COMMAND AND CONTROL WARFARE CENTER (JC2WC): The JC2WC provides joint force commanders (combatant commanders, subordinate unified commanders, and joint task force commanders), service component commanders and functional component commanders direct command and control warfare (C2W) support. The JC2WC supports the integration of the constituent elements of C2W throughout the planning and execution phases of operations. The JC2WC provides predictive analysis and post event mission analytic support to US forces involved in contingency operations. The JC2WC analyzes and correlates all-source data on both friendly and threat forces involved in contingency operations. This data is used as input into sophisticated C2W computer models and simulations. These high-fidelity models incorporate complex radar detection analysis calculations and anomalous propagation (such as atmospheric ducting over land) to provide field commanders composite analytic pictures. The JC2WC provides tactics and technical evaluations to include integrated soft/hard kill options and technical feasibility and trade-offs. This analysis results in a complete assessment of C2W options and effectiveness predictions. FY97-99 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and storage capacity must be added to the JC2WC analysis networks and systems to improve performance of C2W computer models. Workstations are replaced approximately every three years. Funding also provides for field commander support systems, automated systems for IW/C2W training simulations, and equipment to provide vulnerability assessments.</p> <p>3. INFORMATION WARFARE SQUADRON (IWS): The 609th Information Warfare Squadron at Shaw AFB, SC represents the vanguard of AF operational IW. 609 IWS is a combat unit fighting tomorrow's war today. The IWS is the AF template for planning and executing all aspects of Offensive Counterinformation (OCI) and Defensive Counterinformation (DCI). The squadron is responsible for the integration and execution of all the Air Force Forces Commander's OCI and DCI capabilities in support of the Joint Force Air Component Commander's (JFACC) Joint Air and Space Operations Plan(JASOP). FY98 purchases are classified as well as the vendors. Information provided on a need-to-know basis.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|--|---------------|--|--|--|---------|---|---------------|---------|--------------|---------------|------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | | P-1 NOMENCLATURE: C3 COUNTERMEASURES | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. AFIWC SUPPORT | | | | | VAR | N/A | (7,515) | VAR | N/A | (7,795) | VAR | N/A | (8,555) |
| A. ADP UPGRADES | A | | | | | | 210 | | | 212 | | | 221 |
| B. MODELING AND SIMULATION | A | | | | | | 519 | | | 400 | | | 603 |
| C. COMSEC ASSESSMENT SPT | A | | | | | | 425 | | | | | | 425 |
| D. RED FORCE | A | | | | | | 425 | | | | | | |
| E. TMAP | A | | | | | | 1,171 | | | 772 | | | 1,080 |
| F. C2W OPS SUPPORT | A | | | | | | 320 | | | 324 | | | 329 |
| G. INFORMATION WARFARE | A | | | | | | 4,445 | | | 2,195 | | | 2,227 |
| H. OFFENSIVE IW | A | | | | | | | | | 3,892 | | | 3,670 |
| 2. JC2WC | | | | | VAR | N/A | (1,577) | VAR | N/A | (1,714) | VAR | N/A | (1,673) |
| A. EC ANALYST NETWORK | A | | | | | | 517 | | | 678 | | | 326 |
| B. COMBAT ANALYSIS SYSTEM | A | | | | | | 230 | | | 98 | | | 953 |
| C. FIELD COMMANDERS SPT | A | | | | | | 180 | | | 195 | | | 95 |
| D. TRAINING SIMULATION EQUIPMENT | A | | | | | | 175 | | | 254 | | | 191 |
| E. C2W ASSESSMENT EQUIPMENT | A | | | | | | 475 | | | 489 | | | 108 |
| 3. INFORMATION WARFARE SQ (CLASSIFIED PROGRAM) | A | | | | | | | VAR | N/A | 3,116 | | | |
| TOTAL | | | | | | | 9,092 | | | 12,625 | | | 10,228 |
| REMARKS: | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: C3 COUNTERMEASURES |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--------------------------|------|-----------|-----------------|------------------------|-------------------------|------------|------------------------|-----------------|----------------------|
| 1. AFIWC SUPPORT | | | | | | | | | |
| A. ADP UPGRADES | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY98 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| FY99 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| B. MODELING & SIMULATION | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY98 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| FY99 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| C. COMSEC ASSESSMENT SPT | | | | | | | | | |
| FY97 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY99 | VAR | N/A[2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| D. RED FORCE | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPTION [3] | LORAL/RAYTHEON | MULT [1] | MULT [1] | | |
| E. TMAP | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: C3 COUNTERMEASURES | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| F. C2W OPS SPT EQUIPMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |
| G. INFORMATION WARFARE | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |
| H. OFFENSIVE IW | | | | | | | | | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |
| 2. JC2WC SUPPORT | | | | | | | | | | |
| A. EC ANALYST NETWORK | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | MIPR/OPT [4] | DIA/MULT [4] | MULT [1] | MULT [1] | | | |
| FY98 | VAR | N/A [2] | HQ AIA | MIPR/OPT [4] | DIA/MULT [4] | MULT [1] | MULT [1] | YES | | |
| FY99 | VAR | N/A [2] | HQ AIA | MIPR/OPT [4] | DIA/MULT [4] | MULT [1] | MULT [1] | YES | | |
| B. COMBAT ANALYSIS SYSTEM | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: C3 COUNTERMEASURES |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|---|------|-----------|-----------------|------------------------|-------------------------|------------|------------------------|-----------------|----------------------|
| C. FIELD COMMANDERS SPT | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP[4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| D. TRAINING SIMULATION EQUIPMENT | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| E. C2W ASSESSMENT EQUIPMENT | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | | |
| FY98 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| FY99 | VAR | N/A [2] | HQ AIA | OPT/FP [4] | MULT [4] | MULT [1] | MULT [1] | YES | |
| 3. INFORMATION WARFARE SQUADRON | | | | | | | | | |
| FY98 | VAR | N/A [2] | HQ ACC | | | | | | |
| (CLASSIFIED INFORMATION) | | | | | | | | | |

REMARKS:

1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
2. UNIT COST VARIES BECAUSE OF VARYING NUMBERS AND TYPES OF EQUIPMENT END ITEMS.
3. LORAL, LAS VEGAS, NV & RAYTHEON, GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
4. UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY (DIA) EXISTING CONTRACTS WITH MULTIPLE VENDORS, INCLUDING DIA's 21V ADP CONTRACT.
TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:
AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RATHEON, GALETA, CA.
JC2WC: SOUTHWEST RESEARCH INC (SWRI) SAN ANTONIO, TX; SCIENCE APPLICATION INT'L CORP (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOC, HERDON, VA

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: JOINT SURVEILLANCE SYSTEM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$ 0 | \$ 0 | \$11,137 | \$4,713 | \$1,916 | \$4,831 | \$5,037 |
| DESCRIPTION: | | | | | | | | |
| <p>The Joint Surveillance System (JSS): JSS is a major component of the Integrated Tactical Warning and Attack Assessment (ITW/AA) system. The ITW/AA is used by North American Air Defense (NORAD), a bilateral United States and Canadian military command, to provide warning of an atmospheric (aircraft) or exoatmospheric (missile) attack on North America. Within the ITW/AA system, the primary mission of the JSS is the maintenance of air sovereignty over the North American continent. Procurement funding of the following JSS project begins in FY99.</p> <p>R/SAOC MODERNIZATION</p> <p>The Region/Sector Air Operations Center (R/SAOC) computer system processes, integrates, displays and stores data. This data is received from existing surveillance, command and control, and intelligence systems that comprise the atmospheric portion of the ITW/AA system. R/SAOC computer system receives, forwards, and exchanges that data over designated ITW/AA communications networks. It forwards processed ITW/AA data to support strategic and tactical decision-makers with accurate air defense data to provide support for regional aircraft control/intercept missions, including counterdrug operations. The modernized R/SAOC computer system will be a state-of-the-art open architecture of modular design that employs a commercial-off-the-shelf/government-off-the-shelf (COTS/GOTS) hardware and software system. It will accommodate all present operational requirements with expansion capabilities to incorporate any new national missile defense, cruise missile defense, and space based sensors. The modernized system will replace the existing AN/FYQ-93 system, a 1970's proprietary design that has reached its saturation point, cannot support the expanding mission, and is becoming increasingly difficult to maintain.</p> <p>Reference RDT&E funding in Air Force Descriptive Summary PE 12326.</p> <p>FY99 funds will procure new Prime Mission Equipment (PME) and provide for the site activation for the Western Air Defense Sector, Hawaiian, and Alaskan R/SAOC. FY99 will begin pre-operational support for the Southeast Air Defense Sector. FY99 will also cover such items as award fee and GFE.</p> | | | | | | | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: JOINT SURVEILLANCE SYSTEM |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| R/SAOC MODERNIZATION | | | | | | | | | | | | | |
| 1. PME | | | | | | | | | | | | | (7,274) |
| WESTERN AIR DEFENSE SECTOR | B | | | | | | | | | | 1[1] | VAR[2] | 2,991 |
| ALASKAN R/SAOC | B | | | | | | | | | | 1[1] | VAR[2] | 2,206 |
| HAWAIIAN R/SAOC | B | | | | | | | | | | 1[1] | VAR[2] | 2,077 |
| 2. SITE ACTIVATION | | | | | | | | | | | | | (1,078) |
| WESTERN AIR DEFENSE SECTOR | A | | | | | | | | | | 1[1] | VAR[2] | 326 |
| ALASKAN R/SAOC | A | | | | | | | | | | 1[1] | VAR[2] | 263 |
| HAWAIIAN R/SAOC | A | | | | | | | | | | 1[1] | VAR[2] | 489 |
| 3. PRE-OPERATIONAL SUPPORT | | | | | | | | | | | | | (751) |
| WESTERN AIR DEFENSE SECTOR | A | | | | | | | | | | 1[1] | VAR[2] | 279 |
| ALASKAN R/SAOC | A | | | | | | | | | | 1[1] | VAR[2] | 233 |
| HAWAIIAN R/SAOC | A | | | | | | | | | | 1[1] | VAR[2] | 239 |
| 4. OTHER (AWARD FEE, GFE) | A | | | | | | | | | | 1[1] | VAR[2] | (2,034) |
| TOTAL | | | | | | | | | | | | | 11,137 |

REMARKS:
 1. QUANTITY REFERS TO SITES.
 2. UNIT PRICE IS VARIABLE ACCORDING TO SITE.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$23,058 | \$45,213 | \$28,876 | \$31,780 | \$42,531 | \$15,862 | \$15,830 |
| DESCRIPTION: | | | | | | | | |
| <p>Base Level Data Automation consists of several standard Air Force-wide base level computer programs. These programs include automation support of 12 major base level functions such as maintenance, munitions, finance, civil engineering, transportation and supply. All of these programs support the day-to-day activities of base operations. They provide productivity gains, save manpower, and increase the overall efficiencies of base level functions. Some programs, such as Wing Automatic Data Processing, support the consolidation of ADPE, providing the migration to open systems architecture and software standardization at Regional Processing Centers (RPCs) based on the Ada programming language. These programs are key to the Air Force's Global Engagement strategy. They provide the warfighter with a "one update-one time" data processing environment.</p> | | | | | | | | |
| <p>1. WING AUTOMATIC DATA PROCESSING SUPPORT (WAS): This program provides for Life Cycle Management (LCM) of Standard Base Level Support (SBLS) through computer systems for Air Force installations worldwide. During both peace and wartime contingencies, bases are provided hardware/software tools and services to maintain base level support at base-level and regionalized sites in support of flight line maintenance, supply, accounting and finance, budget and personnel service systems at active duty Air Force Bases, Air National Guard, Air Force Reserve installations, and Defense Megacenters (DMCs). This program sustains the support provided to our bases and does not develop new systems or application code. FY97-99 funding continues to provide hardware upgrades and communications interfaces. Failure to fund these upgrades could make the entire standard base-level computer support system inoperative, degrading or disabling the functions of our warfighting missions.</p> | | | | | | | | |
| <p>2. WORK INFORMATION MANAGEMENT SYSTEM (WIMS)/SERVICE INFORMATION MANAGEMENT SYSTEM (SIMS)/BASE CONTRACTING AUTOMATION SYSTEM (BCAS): This program will procure/install additional capability for the Regional Processing Centers (RPCs) to accommodate the regionalization of WIMS/SIMS/BCAS. This regionalization is critical to meeting DoD initiatives that require an open systems architecture with consolidated computer support at RPCs. This effort will provide services at the RPCs for the data automation systems used by Civil Engineers; Morale, Welfare and Recreation Services; and Base Contracting communities. These systems currently reside on Wang proprietary mini-computers. FY97/98 funds buy additional servers and communications equipment for outside CONUS RPCs and CONUS DMCs. Exact numbers of servers depends on proper sizing based on increasing technological capabilities at time of purchase. No FY99 funding is requested.</p> | | | | | | | | |
| <p>3. CARGO MOVEMENT OPERATIONS SYSTEM (CMOS): This program supports the FY87 Joint Chiefs of Staff (JCS) direction and the FY89 Defense Guidance that tasked the Services to develop a capability to provide timely and accurate passenger/cargo movement information during force deployments. Further system development and implementation are consistent with the FY95-99 Defense Guidance that called for support systems to provide "rapid strategic mobility, and sufficient support and sustainment capabilities." CMOS provides an integrated transportation system capability for deployment and sustainment operations by employing the same DoD and Service shipment policies and procedures in peace and war. Capable of supporting routine and surge</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM | |
| <p>requirements, CMOS automates base shipping and deployment processes, produces movement documentation, and furnishes timely information to Major Commands (MAJCOMs), transportation component commands, and the joint deployment community. As the Air Force cargo movement information system, CMOS is a major contributor to DoD in-transit item visibility and control over cargo and passenger movement. CMOS is fielded worldwide at 81 active duty Air Force, 91 Air National Guard (ANG), 13 Air Force Reserve (AFRES), one National Security Agency (NSA), and two Marine Corp locations. FY97 funds completed fielding. FY98-99 funds will procure Radio Frequency (RF) access technology hardware to enable current hand-held terminals to scan bar-coded shipping documents and transmit the data electronically via RF to the CMOS server for processing.</p> <p>4. GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE (GCSS-AF): The GCSS-AF program was created to re-engineer and redesign standard base-level computer systems that support base-level functions as well as enhance war fighting capabilities. The program modernizes approximately 36 computer application systems consisting of 13 plus million lines of code encompassing 12 different functional areas. The modernized systems provide the following: (1) greater functionality for the users; (2) interoperability and easier interfaces with other systems through enhanced data sharing and standardization; (3) systems that can be modified easier and faster to meet changing mission requirements; and (4) systems that can be ported to various hardware/software platforms in an open systems environment. BLSM postured the standard computer systems for movement to the open systems environment. This program increases the operational readiness of all base-level Automated Data Systems (ADS) supporting critical war-fighting weapon systems, reduces logistics support costs, improves productivity, and provides critical decision-making information at the point of attack for operational commanders. FY97 funding for BLSM provided full implementation hardware for the three technical lead ADSs, the Air Force Operations Resource Management System, Manpower Data System, and Logistics Module (LOGMOD-B) at the RPCs and base level, and also purchased the tools necessary to modernize the remaining systems in the Standard Base Level Computer environment. No FY99 funding is requested.</p> <p>5. FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS): FAMS is a fuels data collection/information management system that uses state-of-the-art microcircuit technology to automate the management and control of vital petroleum support operations. FAMS: (1) addresses critical needs in managing USAF fuels; (2) reduces error rates in a \$4 billion annual fuels budget; (3) reduces the risk of loss of life and property; (4) reduces USAF fuels management manpower; and (4) provides accurate information for war planning, which increases the USAF's ability to respond to threats. It eliminates much of the paperwork and manual input in today's fuels management, providing total asset visibility while improving cash flow, credit management, and just-in-time inventory. One hundred thirteen (113) manpower positions were given up based on projected FAMS savings. FAMS also provides the more important benefits associated with safety and the environment. Independent cost-benefit analysis shows FAMS will provide total savings of \$161 million when fully implemented. The system consists of three hardware components that collect fuel transactions and inventory data at base level for service stations (Automated Fuels Service Stations (AFSS)), storage tanks (Automatic Tank Gauging (ATG) devices), and aircraft refueling systems (Automated Data Collection/Fuel Dispensing Systems (ADC/FDS)). In addition, FAMS sustains an information management system to support all users. At the Air Force level, FAMS enhances the aviation fuel tracking/billing system. FY96 and prior year funding initiated FAMS installation. FY97 funds continued procurement/installation of approximately 2022 ATG devices in U.S. Air Forces Europe (USAFE), the CONUS, and Pacific Air Forces (PACAF); and ADC systems to support approximately 10,000 aircraft and metering devices for fuel dispensing systems/equipment. FY98 funds system test and the installation of 50 ATG devices and 975 ADC/FDS systems in PACAF; and installation of 150 ATG devices and equipment at 34 AFSS at Air National Guard sites. FY99 continues installation of ATG devices and ADC systems in the Pacific.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM | |
| <p>6. STANDARD PROCUREMENT SYSTEM (SPS): The SPS is a DoD-directed Major Automated Information Systems Review Council (MAISRC) program requiring transition to common information systems. SPS will replace all DoD non-classified procurement information systems and databases and provide over 51,000 DoD procurement professionals (approximately 7900 Air Force) with an automated information system (AIS) based on standard DoD procurement processes and DoD standard data. In September 1995, DoD directed the acceleration of SPS deployments to achieve Full Operational Capability (FOC) by the end of FY01. The Air Force, along with other DoD procurement agencies supporting SPS, has the acquisition responsibility to provide hardware and communications connectivity to support the SPS. FY98/99 purchase computer hardware and associated software, local area networks, servers, and communications infrastructure at the Major Commands and base level contracting offices.</p> <p>7. INTEGRATED MAINTENANCE DATA SYSTEM (IMDS): This program provides the equipment to support the deployment of IMDS. The IMDS program is an evolutionary acquisition program to develop and field a standard Air Force maintenance information system. The final IMDS systems will replace all existing legacy systems supporting Air Force maintenance activities with a single integrated open architecture, modern decision support system. This enhanced decision support system will increase operational production capability and support system efficiency while decreasing our mobility footprint and cost of operations. FY98/99 funding will purchase computer hardware for operational testing of each increment on a yearly basis.</p> <p>8. PERSONNEL ADMINISTRATION: This program provides the equipment to modernize the Manpower and Personnel Base-Level (MANPER-B) portion of the Deliberate and Crisis Action Planning and Execution System (DCAPES). FY98/99 funding will procure commercial-off-the-shelf (COTS) desktop and notebook computers and secure telephone equipment to replace the current inventory of in-garrison/deployable DCAPES/MANPER-B computers for the Air Force Personnel Center. This will eliminate critical shortfalls in meeting DoD, Joint Chief of Staff, and AF total force personnel accountability and reporting requirements. It will also support unclassified/classified data reporting over the Defense Data Network (DDN) as mandated by DoD.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|--------------------|---|--|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. WING ADP SPT (WAS) | | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[1] | MULT | NOV 96 | JAN 97 | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[1] | MULT | NOV 97 | JAN 98 | | | |
| FY99 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[1] | MULT | NOV 98 | JAN 99 | YES | | |
| 2. WIMS/SIMS/BCAS | | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[3] | PRC CORP MCLEAN, VA | MAR 97 | JUN 97 | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[3] | PRC CORP MCLEAN, VA | MAR 98 | JUN 98 | YES | | |
| 3. CMOS | | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[1] | MULT | JUN 97 | JUN 97 | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[4] | INTERMEC CORP EVERETT, WA | OCT 97 | MAR 98 | | | |
| FY99 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[4] | INTERMEC CORP EVERETT, WA | OCT 98 | MAR 99 | YES | | |
| 4. GCSS | | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[8] | LOCKHEED MARTIN FEDERAL SYSTEMS, COLORADO SP, CO | NOV 96 | JAN 97 | | | |
| 5. FAMS | | | | | | | | | | |
| FY97 | VAR[2] | N/A[2] | USAFE & AFMC/SAALC | OPT/FP[5] | MULT | NOV 96 | JAN 97 | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/SAALC | OPT/FP[5] | MULT | NOV 97 | JAN 98 | | | |
| FY99 | VAR[2] | N/A[2] | AFMC/SAALC | OPT/FP[5] | MULT | NOV 98 | JAN 99 | YES | | |
| 6. STD PROCUREMENT SYSTEM (SPS) | | | | | | | | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[6] | MULT | FEB 98 | JUN 98 | YES | | |
| FY99 | VAR[2] | N/A[2] | AFMC/ESC-SSG | OPT/FP[6] | MULT | FEB 99 | JUN 99 | YES | | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: BASE LEVEL DATA AUTOMATION PROGRAM |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--------------------|--------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| 7. IMDS | | | | | | | | | |
| FY98 | VAR[2] | N/A[2] | AFMC/ESC | OPT/FP[7] | SUN MICRO SYS, MTN VIEW, CA & HUGHES DATA SYS, IRVINE, CA | FEB 98 | AUG 98 | YES | |
| FY99 | VAR[2] | N/A[2] | AFMC/ESC | OPT/FP[7] | SUN MICRO SYS, MTN VIEW, CA & HUGHES DATA SYS, IRVINE, CA | FEB 99 | AUG 99 | YES | |
| 8. PERSONNEL ADMIN | | | | | | | | | |
| FY98 | VAR[2] | N/A[2] | HQ AFPC | OPT/FP[1] | MULT | NOV 97 | JAN 98 | | |
| FY99 | VAR[2] | N/A[2] | HQ AFPC | OPT/FP[1] | MULT | NOV 98 | JAN 99 | YES | |

REMARKS:
 [1]. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
 [2]. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.
 [3]. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR.
 [4]. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMEC CORP.
 [5]. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTECH (GERMANY)
 [6]. OPTIONS TO DTV AND ULANA STANDARD CONTRACTS.
 [7]. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.
 [8]. SOFTWARE LICENSE PURCHASED THROUGH ID/IQ ELEMENT OF LOCKHEED MARTIN FEDERAL SYSTEMS (LMFS) CONTRACT TO SUPPORT WORLDWIDE MODERNIZATION EFFORTS.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEMS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$46,129 | \$46,920 | \$44,654 | \$48,351 | \$52,324 | \$45,551 | \$44,783 |
| DESCRIPTION: | | | | | | | | |
| <p>This Theater Battle Management Core System (TBMCS) procurement line funds the purchase of state-of-the-art equipment to satisfy Air Force requirements for automated support of command and control (C2) functions at both force and wing levels worldwide. TBMCS encompasses four principal systems: (1) the Contingency Theater Automated Planning System (CTAPS), (2) the Wing Command and Control System (WCCS), (3) the Command and Control Information Processing System (C2IPS), and (4) the Combat Intelligence System (CIS). As the functions of these systems migrate into a single integrated system, the funding for the earlier separate procurements are programmed under the title of the umbrella system TBMCS. Funding was requested separately for CTAPS and WCCS during FY97, but funding is requested for the integrated system (TBMCS) during FY98 and FY99. The Combat Intelligence System (CIS), another function of TBMCS, is funded in the P-1 Line Intelligence Data Handling System.</p> <p>1. THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS): FY98/99 funds will provide technical upgrades to the fielded force and wing level installations required to sustain operations in the information-rich world of the future. The funds will also procure a full complement of equipment for three (3) wing level installations in FY98 (Kadena AB, JPN; Kunsan AB, ROK; and Davis-Monthan AFB, AZ), and five installations during FY99 (Dyess AFB, TX; Moody AFB, GA; Holloman AFB, NM; Nellis AFB, NV; and one Guard/Reserve base). Additionally, FY98/99 funds initiate procurement, integration, and deployment of the Combat Integration Capability (CIC) into the Air Operations Centers (AOCs) to process time critical targets (TCTs) during the execution of daily operations. The CIC will allow the commander to monitor the battle space, discriminate TCTs from other tactical activity, identify the best available weapon to engage the TCT, and coordinate engagement of the weapon and weapon platform. Also included in the FY98 program are C2IPS nodes for non-Air Mobility Command (AMC) C2IPS sites including two deployable nodes to be fielded at Ramstein AB Germany, and one fixed node to be fielded at Mildenhall AB, UK. These three nodes will provide United States Air Forces in Europe (USAFE) with command and control visibility into AMC missions and assets. FY98/99 funds also provide required software licenses, Type I training, engineering support, and system program office support for TBMCS applications.</p> <p>2. CONTINGENCY THEATER AUTOMATED PLANNING SYSTEM (CTAPS): CTAPS provides a joint standard for execution and planning of Air Tasking Orders (ATOs) at the Air Operations Center (AOC), supporting fixed and deployed contingency air operations under a Joint Forces Air Component Commander (JFACC). It permits the JFACC and his staff to adjust planning in response to changing battlefield conditions and provides the means to produce, disseminate and execute the daily ATO. CTAPS will replace cumbersome manual processes and directly supports the JFACC in planning and executing the theater air campaign down to the unit level. CTAPS government furnished equipment (GFE) consists of commercial-off-the-shelf (COTS) workstations/servers, network equipment and initial software licenses necessary to operate CTAPS. Furthermore, CTAPS provides upgraded shelters and essential computer and communications equipment at both the Air Operations Centers and the Air Support Operations Centers (ASOC). The ASOC is a critical link between engaged ground forces and air operations; it is collocated with the Army Corps, tying the Forward Air Controller (FAC) to the combat operations cell of the AOC. CTAPS will enhance the speed and accuracy of JFACC responses to Army air support requirements.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEMS | |
| <p>a. Air Operations Center AOC: FY97 funds provide for: (1) technical upgrades for all fielded CTAPS workstations at AOCs; (2) Type I training; (3) engineering support for CTAPS implementation at the numbered Air Forces and continue ongoing engineering support to the production and deployment effort; and (4) required COTS software licences. FY 98/99 are discussed at the TBMCS level above (see paragraph 1).</p> <p>b. Air Support Operations Center (ASOC): FY97 funds provide for: (1) the last five ASOC shelters; (2) associated integration and assembly of those 5 shelters; (3) associated workstations and; (4) additional GFE and finally; (5) Type I training to complete the ASOC implementation in Germany and for squadrons at Murray, WA and Peoria, IL. FY98/99 are discussed at the TBMCS level above (see paragraph 1).</p> <p>c. FY97 funds also procured additional GFE for AFSOC.</p> <p>d. No FY99 funds requested.</p> <p>3. WING COMMAND AND CONTROL SYSTEM (WCCS): WCCS provides workstations and local area networks to give wing level commanders and battle staffs a timely and accurate composite picture of wing resources, enabling effective decision-making and increasing sortie generation capability. WCCS is the primary system that receives and disseminates C2 information at the wing level. It will be incorporated into the integrated TBMCS system.</p> <p>FY97 funding procured a full complement of equipment for Incirlik AB, Turkey; Langley AFB, VA; Shaw AFB, SC; AFSOC at Hurlburt Field, FL; and a partial complement of equipment (modernization) for an AFSOC contingent at RAF Mildenhall, UK. FY97 funding also provided for Type-I Training and engineering/program support for WCCS implementation/deployment efforts.</p> <p>FY98-99 are discussed at the TBMCS level above (see first paragraph).</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEMS |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. TBMCS | | | | | | | | | | (46,920) | | | (44,654) |
| A. HARDWARE | A | | | | | | | | | | | | |
| CTAPS | | | | | | | 3 | N/A | 8,246 | | 5 | N/A | 2,384 |
| WCCS | | | | | | | VAR | N/A | 13,444 | | VAR | N/A | 15,543 |
| B. CIC | A | | | | | | VAR | N/A | 9,243 | | VAR | N/A | 9,243 |
| C. C2IPS NODES | A | | | | | | 3 | 1,071 | 3,213 | | | | |
| D. COTS SW LICENSES | | | | | | | VAR | N/A | 7,060 | | VAR | N/A | 11,790 |
| E. TYPE 1 TRAINING | | | | | | | | | 800 | | | | 1,032 |
| F. ENG/SPO SPT | | | | | | | | | 4,914 | | | | 4,662 |
| | | | | | | | | | | | | | |
| 2. CTAPS | | | | | | | | | (31,545) | | | | |
| A. AOC | A | | | | | | | | | | | | |
| (1) TECH UPGR/WKSTNS | | | | | VAR | N/A | 11,901 | | | | | | |
| (2) TYPE 1 TRAINING | | | | | | | | | 400 | | | | |
| (3) ENG/SPO SUPPORT | | | | | | | | | 5,388 | | | | |
| (4) COTS S/W LICENSES | | | | | VAR | N/A | 5,283 | | | | | | |
| B. ASOC | A | | | | | | | | | | | | |
| (1) ASOC SHELTERS | | | | | 5 | 31 | 155 | | | | | | |
| (2) INTEGRATION & ASSY | | | | | 5 | 787 | 3,935 | | | | | | |
| (3) ASOC WORKSTNS | | | | | VAR | N/A | 1,683 | | | | | | |
| (4) OTHER GFE | | | | | VAR | N/A | 1,816 | | | | | | |
| (5) TYPE 1 TRAINING | | | | | | N/A | 500 | | | | | | |
| C. AFSOC GFE | A | | | | VAR | N/A | 484 | | | | | | |

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| | P-1 ITEM: 57 | | PAGE NO: 94 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEMS |
|---|--|

| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|---|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 3. WCCS | | | | | | | (14,584) | | | | | | |
| A. USAFE COMMAND & CONTROL (C2) SYSTEM MODERNIZATION | A | | | | VAR | N/A | 2,136 | | | | | | |
| B. ACC C2 SYS MODERNIZATION | A | | | | VAR | N/A | 4,190 | | | | | | |
| C. AFSOC MODERNIZATION | A | | | | VAR | N/A | 5,780 | | | | | | |
| D. TYPE 1 TRAINING | | | | | | | 200 | | | | | | |
| E. ENGR/PROGRAM SUPT | | | | | | | 2,278 | | | | | | |
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| | | | | | | | | | | | | | |
| TOTAL | | | | | | | 46,129 | | | 46,920 | | | 44,654 |

REMARKS:

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
THEATER BATTLE MANAGEMENT C2 SYSTEMS

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|----------------------------|------|-----------|-----------------|------------------------|---|------------|------------------------|-----------------|----------------------|
| 1. TBMCS | | | | | | | | | |
| A. HARDWARE (CTAPS & WCCS) | | | | | | | | | |
| FY 98 | 3 | N/A[1] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA AND HUGHES DATA SYS IRVINE, CA | OCT 97 | DEC 97 | | |
| FY 99 | 5 | N/A[1] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA AND HUGHES DATA SYS IRVINE, CA | OCT 98 | DEC 98 | YES | |
| B. CIC | | | | | | | | | |
| FY 98 | VAR | N/A[1] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA AND HUGHES DATA SYS IRVINE, CA | FEB 98 | MAY 98 | | |
| FY 99 | VAR | N/A[1] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA AND HUGHES DATA SYS IRVINE , CA | OCT 98 | DEC 98 | YES | |
| C. C2IPS NODES | | | | | | | | | |
| FY98 | 3 | 1,071 | AFMC/ESC | OPT/ID/IQ[3] | COMPUTER SCIENCES CORP, MORRISTOWN, NJ | DEC 97 | APR 98 | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEMS |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|-----------------------------------|------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| 2. CTAPS | | | | | | | | | |
| A. AOC | | | | | | | | | |
| (1) TECH UPGRD/ WKSTNS FY97 | VAR | N/A[1] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA AND HUGHES DATA SYS, IRVINE , CA | OCT 96 | DEC 96 | | |
| TECH UPGRD/WKSTNS FY97 | VAR | N/A[1] | AFMC/ESC | MIPR OPT/ID/IQ | GSA WORLDWIDE TECH ST LOUIS, MO | OCT 96 | DEC 96 | | |
| B. ASOC | | | | | | | | | |
| (1). ASOC SHELTERS | | | | | | | | | |
| FY97 | 5 | 31 | AFMC/ESC | MIPR OPT/FFP[4] | ARMY/ MARION COMPOSITES FALLS CHRUCH, VA | NOV 96 | APR 97 | | |
| (2). INTERGRATION & ASSY | | | | | | | | | |
| FY97 | 5 | 787 | AFMC/ESC | OPT/FFP[5] | LMCCS COLORADO SPRINGS, CO | APR 97 | MAY 98 | | |
| (3). ASOC WORKSTNS | | | | | | | | | |

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
THEATER BATTLE MANAGEMENT C2 SYSTEMS

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|----------------------------------|--------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| FY97 | VAR | N/A[1] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA AND HUGHES DATA SYS., IRVINE, CA | JAN 97 | MAR 97 | | |
| FY97 | VAR | N/A[1] | AFMC/ESC | MIPR OPT/ID/IQ | GSA WORLDWIDE TECH ST LOUIS, MO | OCT 96 | DEC 96 | | |
| (4). OTHER GFE | | | | | | | | | |
| FY97 | VAR[6] | N/A[6] | AFMC/ESC | OPT/ID/IQ[7] | SUN MICRO SYS., MOUNTAIN VIEW, CA & HUGHES DATA SYS, IRVINE CA | JUL 96 | DEC 96 | | |
| C. AFSOC GFE | | | | | | | | | |
| FY97 | VAR[8] | VAR[8] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA & HUGHES DATA SYS, IRVINE CA | OCT 96 | NOV 97 | | |
| 3. WCCS | | | | | | | | | |
| A. USAFE C2 SYS MODERNIZATION | | | | | | | | | |
| FY97 | VAR | N/A[9] | AFMC/ESC | ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA & HUGHES DATA SYS, IRVINE CA | OCT 96 | DEC 96 | | |
| FY97 | VAR | N/A[9] | AFMC/ESC | MIPR OPT/ID/IQ | GSA WORLDWIDE TECH ST LOUIS, MO | OCT 96 | DEC 96 | | |
| B. ACC C2 SYS MODERNIZATION | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: THEATER BATTLE MANAGEMENT C2 SYSTEMS |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|-----------------------|------|-----------|-----------------|------------------------|---|------------|------------------------|-----------------|----------------------|
| FY97 | VAR | N/A[9] | AFMC/ESC | OPT/ID/IQ[2] | SUN MICRO SYS., MOUNTAIN VIEW, CA | DEC 96 | FEB 97 | | |
| FY97 | VAR | N/A[9] | AFMC/ESC | MIPR OPT/ID/IQ | GSA WORLDWIDE TECH ST LOUIS, MO | OCT 96 | DEC 96 | | |
| C. AFSOC MODERIZATION | | | | | | | | | |
| FY97 | VAR | N/A[9] | AFMC/ESC | OPT/ID/IQ[7] | SUN MICRO SYS., MOUNTAIN VIEW, CA & HUGHES DATA SYS IRVINE, CA | OCT 96 | MAR 97 | | |

REMARKS:

1. Varying unit costs due to number/types of equipment being procured for specific sites.
2. Options to the new Air Force Workstation Contract awarded March 1996 to Sun Micro Systems, Mountain View, CA. and Hughes Data Systems, Irvine, CA.
3. Option to the Command and Control Information Processing System Contract awarded Dec 1988 to Computer Sciences Corporation, Morristown, NJ.
4. Option to contract # DAAK-01-94-C-0070.
5. Options to the Theater Battle Mgt. Integration & Development contract awarded Oct 95 to Lockheed-Martin Command & Control Systems, Colorado Springs, CO.
6. Other GFE includes various support equipment such as peripheral devices, local area networks, printers, communications security equipment, etc. Unit costs vary because of the multiple types of equipment being procured.
7. Equipment will be procured through both the new Workstation Contract (reference footnote 2) and off the GSA schedule.
8. Eight workstations will be procured for the AFSOC along with associated support equipment. Unit costs vary.
9. Procures various workstations and servers for site-specific configurations resulting in various unit costs.

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| | P-1 ITEM: 57 | | PAGE NO: 99 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: INFORMATION TRANSMISSION SYSTEMS | | | | |
|---|--|--|--|--|--|--|--|--|

| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|--|----------|----------|----------|---------|----------|---------|---------|
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$12,093 | \$10,987 | \$10,792 | \$9,924 | \$10,792 | \$3,575 | \$3,458 |

DESCRIPTION:

Information Transmission Systems P-1 line provides funding to interconnect information processing equipment (workstations, printers, etc.) and information transport systems (base-wide fiber optic networks) to form an integrated information resource infrastructure that can meet the information demands of varying organizational structures. The Information Transmission Systems line supports requirements for: Local Area Networks (LANs), and Wide Area Networks (WANs), including system design, engineering, installation and acceptance testing; LAN/WAN equipment items (network file servers, network management systems, network storage units, etc.); and transmission components (multiplexers, bridges, routers, cabling, etc.).

1. HQ PACIFIC AIR FORCE (PACAF): FY97-99 funding will support information transmission upgrades for Hickam AFB (HI), Elmendorf AFB (AK), Eielson AFB (AK), Andersen AFB (Guam), Yokota AB (JA), Misawa AB (JA), and Osan AB (KOR). Site configurations vary by base depending on the size and mission at each location. Funds will be used to expand the PACAF-wide Secret-Level Network, procure the Releasable to the Republic of Korea (RELROK) dissemination system supporting the warfighters' access to the PACAF intranet, and upgrade switches (including Y2K not covered under other programs).
2. HQ AIR EDUCATION AND TRAINING COMMAND (AETC): These funds support the information transmission systems used by AETC. For example, the Air University Distributed Information System helps achieve education excellence by procuring information technology tools to access and manage information. These funds establish information infrastructure (local network and associated equipment) to facilitate research, enhance curriculum, conduct modeling and simulation 'war games', and to provide the information required to execute the education mission. FY97 dollars provided the funding for the network operating system, the upgrade of the communication backbone, and upgrades of intrabuilding network infrastructure within AETC. FY98/99 funding provides for initial LAN capability for some Air University organizations and upgrades for others. The AETC LAN Technology Refreshment Program supports acquisition and installation of equipment and software for the continuation of a command-wide enterprise network to interconnect similar and dissimilar smaller networks. This includes the expansion and upgrade of network connectivity to functional communities with inadequate or no existing connectivity.
3. HQ AIR FORCE MATERIEL COMMAND (AFMC): FY98/99 funding provides for Air Force Systems Networking (AFSN) Modernization. This modernization effort will establish a shared, single high-speed connection to the Defense Information Systems Agency (DISA) Secret-Level Internet Protocol Router Network (SIPRNET). AFMC currently has many different types of connectivity which lack proper coordination resulting in multiple circuits. This upgrade effort will enhance operations by maximizing the use of existing resources and increasing network performance, security, and manageability.
4. HQ AIR COMBAT COMMAND (ACC): These funds are used to install/upgrade/complete information transmission systems at Howard AFB (Panama), Mt Home AFB (ID), Cannon AFB (NM), Langley AFB (VA), Nellis AFB (NV), Shaw AFB (SC), 33 Fighter Wing (FW) (Eglin AFB, FL), Air Warfare Center (AWC) (Nellis AFB, NV), Minot AFB (ND), Lajes AFB (Azores), 8 AF (Barksdale AFB, LA), 5 Combat Communications Group (CCG) (Robbins AFB, GA), and 12 AF

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| | P-1 ITEM: 58 | | PAGE NO: 100 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: INFORMATION TRANSMISSION SYSTEMS | |
| <p>(Davis Monthan AFB, AZ). Systems are unique for each base and are made up of various LAN/WAN equipment items (network file servers, network management systems, network storage units, etc.) and transmission components (multiplexers, bridges, routers, cabling, etc.). FY97/98/99 funding continues this upgrade effort throughout the command.</p> <p>5. HQ AIR FORCE SPACE COMMAND (AFSPC): FY97-99 funding will upgrade command-wide administrative switches, provide fiber to non-core command buildings, install gray wire in support of Combat Information Transport Systems (CITS) and acquire Asynchronous Transfer Mode (ATM) and Synchronous Optical Network (SONET) equipment not delivered by CITS.</p> <p>6. HQ US AIR FORCE EUROPE (USAFE): This funding purchases Metropolitan and Wide Area Network (MAN & WAN) infrastructure expansion and modernization equipment including wireless network equipment, network servers, fiber and metallic interbase and premises wiring, fiber optic transceivers, network hub equipment and operations control facility voice and data switching equipment. FY97 funds purchased base MAN and LAN equipment at Araxos AS Greece, communications systems and network equipment for the new CINCUSAFE Air Mobility Operations Control Center and the 86th Wing Operations Center, ground to air radio and switching equipment for the 39th and 52th Fighter Wings, and supported 48th Fighter Wing Operations Center equipment modernization. FY98/99 funds expand copper/fiber cable distribution and MAN/WAN systems at Aviano AB, RAF Lakenheath, Ramstein AB, Spangdahlem AB, and RAF Mildenhall to support the Combat Information Transport System (CITS).</p> <p>7. HQ AIR FORCE COMMUNICATIONS AGENCY (AFCA): FY97/FY98 funding provides support for an AFCA Windows LAN upgrade. This upgrade includes procurement of Windows system software, print servers, hard drives, memory upgrade kits, channel controllers, miscellaneous cables and connectors. No FY99 funding requested.</p> | | |

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| | P-1 ITEM: 58 | | PAGE NO: 101 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: INFORMATION TRANSMISSION SYSTEMS |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. HQ PACAF | A | | | | VAR[1] | N/A[1] | 1,017 | VAR[1] | N/A[1] | 1,000 | VAR[1] | N/A[1] | 993 |
| 2. HQ AETC | A | | | | VAR[1] | N/A[1] | 1,686 | VAR[1] | N/A[1] | 1,655 | VAR[1] | N/A[1] | 1,647 |
| 3. HQ AFMC | A | | | | | | | VAR[1] | N/A[1] | 1,597 | VAR[1] | N/A[1] | 1,695 |
| 4. HQ ACC | A | | | | VAR[1] | N/A[1] | 4,394 | VAR[1] | N/A[1] | 3,530 | VAR[1] | N/A[1] | 3,569 |
| 5. HQ AFSPC | A | | | | VAR[1] | N/A[1] | 2,700 | VAR[1] | N/A[1] | 974 | VAR[1] | N/A[1] | 968 |
| 6. HQ USAFE | A | | | | VAR[1] | N/A[1] | 1,852 | VAR[1] | N/A[1] | 1,856 | VAR[1] | N/A[1] | 1,920 |
| 7. HQ AFCA | A | | | | VAR[1] | N/A[1] | 444 | VAR[1] | N/A[1] | 375 | | | |
| | | | | | | | | | | | | | |
| TOTAL | | | | | | | 12,093 | | | 10,987 | | | 10,792 |
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REMARKS:
[1] QUANTITIES AND UNIT COSTS VARY AT EACH LOCATION.

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
INFORMATION TRANSMISSION SYSTEMS

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--------------------|--------|-----------|-----------------|------------------------|-------------------------|------------|------------------------|-----------------|----------------------|
| 1. HQ PACAF | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ PACAF | OPT/FP [2] | MULT [2] | JUN 97 | JUL 97 | | |
| FY98 | VAR[1] | N/A [1] | HQ PACAF | OPT/FP [2] | MULT [2] | MAR 98 | JUL 98 | YES | |
| FY99 | VAR[1] | N/A [1] | HQ PACAF | OPT/FP [2] | MULT [2] | FEB 99 | JUL 99 | YES | |
| 2. HQ AETC | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ AETC | OPT/FP [2] | MULT [2] | DEC 96 | JAN 97 | | |
| FY98 | VAR[1] | N/A [1] | HQ AETC | OPT/FP [2] | MULT [2] | DEC 97 | MAR 98 | | |
| FY99 | VAR[1] | N/A [1] | HQ AETC | OPT/FP [2] | MULT [2] | DEC 98 | MAR 99 | YES | |
| 3. HQ AFMC | | | | | | | | | |
| FY98 | VAR[1] | N/A [1] | HQ AFMC | C/FP/MIPR | MULT [2] | APR 98 | JUL 98 | YES | |
| FY99 | VAR[1] | N/A [1] | HQ AFMC | C/FP/MIPR | MULT [2] | FEB 99 | MAY 99 | YES | |
| 4. HQ ACC | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ ACC | OPT/FP [2] | MULT [2] | MAY 97 | JUN 97 | | |
| FY98 | VAR[1] | N/A [1] | HQ ACC | OPT/FP [2] | MULT [2] | MAR 98 | MAY 98 | YES | |
| FY99 | VAR[1] | N/A [1] | HQ ACC | OPT/FP [2] | MULT [2] | FEB 99 | MAY 99 | YES | |
| 5. HQ AFSPC | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ AFSPC | OPT/FP [2] | MULT [2] | MAY 97 | JUN 97 | | |
| FY98 | VAR[1] | N/A [1] | HQ AFSPC | OPT/FP [2] | MULT [2] | JAN 98 | MAY 98 | | |
| FY99 | VAR[1] | N/A [1] | HQ AFSPC | OPT/FP [2] | MULT [2] | JAN 99 | MAY 99 | YES | |
| 6. HQ USAFE | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ USAFE | OPT/FP [2] | MULT [2] | JUN 97 | JUL 97 | | |
| FY98 | VAR[1] | N/A [1] | HQ USAFE | OPT/FP [2] | MULT [2] | APR 98 | JUL 98 | YES | |
| FY99 | VAR[1] | N/A [1] | HQ USAFE | OPT/FP [2] | MULT [2] | FEB 99 | JUL 99 | YES | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|--------|-----------|-----------------|--|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: INFORMATION TRANSMISSION SYSTEMS | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 7. HQ AFCA | | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ AFCA | OPT/FP [2] | MULT [2] | JUN 97 | JUL 97 | | | |
| FY98 | VAR[1] | N/A [1] | HQ AFCA | OPT/FP [2] | MULT [2] | FEB 98 | JUL 98 | YES | | |
| REMARKS: [1] MULTIPLE PIECES OF EQUIPMENT BEING PROCURED RESULT IN VARIED QUANTITIES AND UNIT COSTS. [2] OPTIONS BEING USED TO PROCURE MULTIPLE PIECES OF EQUIPMENT FROM THE GSA SCHEDULE, THE AF MINICOMPUTER MULTI-USER SYSTEM, AFCAC 308, UNIFED LOCAL AREA NETWORK ARCHITECTURE (ULANA) II, AND DESKTOP IV CONTRACTS. AWARD AND DELIVERY DATES REFLECT DATE OF FIRST AWARD/DELIVERY. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$83,054 | \$110,072 | \$159,383 | \$115,481 | \$115,295 | \$110,167 | \$110,396 |
| DESCRIPTION: | | | | | | | | |
| <p>The BII procurement line funds the Combat Information Transport System (CITS) Program, which is a major component of the Air Force's portion of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII). CITS will modernize the information transport capability at the base level by replacing maintenance intensive equipment, replacing or upgrading some existing voice switching systems, providing network management of information systems, increasing the capacity of saturated information transmission systems, and providing information protect tools. The program includes four (4) product areas which are centrally funded and managed by the CITS Program Office. The product areas are described below:</p> <p>(1) INFORMATION TRANSPORT SYSTEM (ITS) PRODUCT AREA: The ITS Product Area will provide each Air Force base with a broad-band, digital information transport network to provide near-instantaneous information transfer. The system will have sufficient capacity to meet each base's data, voice, video, imagery, and telemetry requirements. Initial capability will be for data transport with other media incorporated as technology and funding permit. FY97/98/99 funding procures ITS for 12/16/15 Air Force bases, respectively.</p> <p>(2) NETWORK MANAGEMENT SYSTEM (NMS)/ BASE INFORMATION PROTECT(BIP) PRODUCT AREA: The NMS Product Area provides a centralized command and control network management system to the base Air Force Network Control Center (AFNCC). The CITS NMS will consolidate network management operations and maintenance for the base CITS Information Transport System (ITS), the existing base information infrastructure, and base Local Area Networks (LANs). The NMS supports the International Standards Organization's (ISO) five network management (NM) functions: Fault Management, Configuration Management, Performance Management, Accounting Management, and Security Management. In addition, the NMS supports the AFNCC key support core services and duties. BIP provides the information protect tools for each Air Force base to detect, deter, isolate, contain, reconstitute and recover from information systems and network security intrusions or attacks. The tools will ensure that information integrity, security, and confidentiality are maintained while passing information across the network(s). This capability is provided for networks managed by the NMS. FY97/98/99 funding procures NMS/BIP for 42/66/53 Air Force bases, respectively.</p> <p>(3) VOICE SWITCHING SYSTEM (VSS) PRODUCT AREA: FY97/98/99 funding procures VSS for 5/4/6 Air Force bases, respectively. The VSS Product Area, formerly Digital Switch System (DSS), will provide technology upgrades to some existing base telephone systems and, at some bases, new commercial off the shelf (COTS) digital switching equipment to replace telephone switches no longer capable of meeting mission requirements. The increased capacity and standard interfaces of the new or upgraded equipment (dial central offices, information transport nodes, remote switching centers, private branch exchanges, etc.) will improve intrabase connectivity and capability to move information worldwide. The VSS is a portion of the base telecommunications system. Additionally, this product areas addresses "Year 2000 (Y2K)" switching system at applicable bases accounting for a significant increase in FY99 funding.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII) | |
| <p>4) TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS) PRODUCT AREA: The TMS Product Area, formerly CITS Management Subsystem (CMS), will provide an automated telecommunications management system that will provide services such as collecting and archiving information on cable plant records, servicing orders and usage/billing, directory and operator assistance including the creation and update of telephone books, and the inventory control of logistics support items. TMS is a stand-alone system interfaced to the VSS. FY97/98/99 funding procures TMS for 13/5/4 Air Force bases, respectively.</p> | | |

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| | P-1 ITEM: 59 | | PAGE NO: 105 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: BASE INFORMATION INFRASTRUCTURE (BII) |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|------------------|------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| 1. ITS | | | | | | | | | |
| FY97 | 6 | VAR[1] | AFMC/ESC | DO/FFP | GTE SERVICES FREDERICK, MARYLAND | JAN 97 | FEB 97 | | |
| | 6 | VAR[1] | AFMC/ESC | DO/FFP | 38 EIW TINKER AFB, OK | MAR 97 | APR 97 | | |
| FY98 | 10 | VAR[1] | AFMC/ESC | DO/FFP | GTE SERVICES FREDERICK, MARYLAND | NOV 97 | JAN 98 | | |
| | 6 | VAR[1] | AFMC/ESC | DO/FFP | 38 EIW TINKER AFB, OK | OCT 97 | DEC 97 | | |
| FY99 | 9 | VAR[1] | AFMC/ESC | DO/FFP | GTE SERVICES FREDERICK, MARYLAND | DEC 98 | JAN 99 | YES | |
| | 6 | VAR[1] | AFMC/ESC | DO/FFP | 38 EIW TINKER AFB, OK | OCT 98 | DEC 98 | YES | |
| 2. NMS/BIP | | | | | | | | | |
| FY97 | 5 | VAR[1] | AFMC/ESC | DO/FFP | TRW CORP. SAN ANTONIO, TX | NOV 96 | DEC 96 | | |
| | 37 | VAR[1] | AFMC/ESC | DO/FFP | EDS CORP. HERNDON, VA | OCT 96 | NOV 96 | | |
| FY 98 | 44 | VAR[1] | AFMC/ESC | DO/FFP | TRW CORP. SAN ANTONIO, TX | NOV 97 | DEC 97 | | |
| | 22 | VAR[1] | AFMC/ESC | DO/FFP | EDS CORP. HERNDON, VA | OCT 97 | NOV 97 | | |
| FY 99 | 26 | VAR[1] | AFMC/ESC | DO/FFP | ULANA II MAXWELL-GUNTER AFB, AL | OCT 98 | NOV 98 | YES | |

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
BASE INFORMATION INFRASTRUCTURE (BII)

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|------------------|------|-----------|-----------------|------------------------|---------------------------------------|------------|------------------------|-----------------|----------------------|
| | 27 | VAR[1] | AFMC/ESC | DO/FFP | ULANA II MAXWELL-GUNTER AFB, AL | OCT 98 | NOV 98 | YES | |
| 3. VSS | | | | | | | | | |
| FY97 | 3 | VAR[1] | AFMC/ESC | DO/FP | GTE NEEDHAM, MA | JUN 97 | NOV 97 | | |
| | 2 | VAR[1] | AFMC/ESC | DO/FP | NORTEL, MCLEAN VA | MAR 97 | OCT 97 | | |
| FY98 | 4 | VAR[1] | AFMC/ESC | DO/FP | GTE NEEDHAM, MA | OCT 97 | NOV 97 | | |
| FY99 | 6 | VAR[1] | AFMC/ESC | DO/FP | GTE NEEDHAM, MA | OCT 98 | DEC 98 | YES | |
| 4. TMS | | | | | | | | | |
| FY97 | 13 | VAR[1] | AFMC/ESC | DO/FFP | ANSTEC, INC FAIRFAX, VA | DEC 96 | MAY 97 | | |
| FY 98 | 5 | VAR[1] | AFMC/ESC | DO/FFP | ANSTEC, INC FAIRFAX, VA | OCT 97 | MAY 98 | | |
| FY 99 | 4 | VAR[1] | AFMC/ESC | DO/FFP | ANSTEC, INC FAIRFAX, VA | OCT 98 | MAY 99 | YES | |

REMARKS:

1. Costs vary site by site due to tailoring of equipment to individual site's telecommunications requirements, e.g. number of users, site layout, data throughput, cable lengths, etc.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: USCENTCOM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$3,474 | \$3,875 | \$4,458 | \$5,855 | \$5,957 | \$6,028 | \$6,047 |
| <p>DESCRIPTION: The Air Force is the executive agent for US Central Command (USCENTCOM). USCENTCOM and its area of responsibility (AOR) are separated by over 7,000 miles. Command, control, communications and computer (C4) systems must be able to effectively control contingency or peacetime operations while deployed or in garrison. The US Commander-in-Chief, Central Command (CINCCENT) warfighting Command Automation System provides the necessary automated systems for command and control of all assigned forces. USCENTCOM uses the Joint Staff's Modern Aids to Planning Program (MAPP) by running automated courses of action studies and wargaming simulations to validate operational planning actions. Requirements for the Joint Communications Support Element (JCSE) are also included to replace and modernize its equipment to continue support of Joint Chiefs of Staff (JCS) directed operations.</p> <p>1. USCENTCOM COMMAND AND CONTROL SYSTEMS: This program procures essential CINCCENT command and control systems in support of deployed forces as well as garrison-based contingency and peacetime operations. FY97-99 funds provide for modernization of communications and automation systems which include procurement of USCENTCOM-specific Global Command and Control System (GCCS) equipment, commercial satellite communications terminals, telephone switches and upgrades to the MAPP system.</p> <p>2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): FY97-99 funds provide the Air Force's one-third share to procure command, control and communications (C3) equipment in support of deployed Joint Task Force Headquarters and deployed Special Operations Command Headquarters. This funding is equally shared with the Army and Navy. JCSE is the only joint DoD unit specifically formed to provide C3 support for JCS contingency operations worldwide. Equipment requirements are approved annually by the JCS and assigned to the respective services for procurement through the Executive Acquisition Agent (Air Force).</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|-----------------|---------------------------------------|-------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: USCENTCOM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. USCENTCOM COMMAND & CONTROL SYSTEMS | | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | HQ CENTCOM | C/FFP | MULT [1] | MULT [1] | MULT [1] | | | |
| FY98 | VAR[1] | N/A [1] | HQ CENTCOM | C/FFP | MULT [1] | MULT [1] | MULT [1] | YES | | |
| FY99 | VAR[1] | N/A [1] | HQ CENTCOM | C/FFP | MULT [1] | MULT [1] | MULT [1] | YES | | |
| 2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE) | | | | | | | | | | |
| FY97 | VAR[1] | N/A [1] | AFMC/ESC | C/FFP | MULT [1] | MULT [1] | MULT [1] | | | |
| FY98 | VAR[1] | N/A [1] | AFMC/ESC | C/FFP | MULT [1] | MULT [1] | MULT [1] | YES | | |
| FY99 | VAR[1] | N/A [1] | AFMC/ESC | C/FFP | MULT [1] | MULT [1] | MULT [1] | YES | | |
| REMARKS: | | | | | | | | | | |
| 1. MULTIPLE CONTRACT AWARDS FOR SMALL ACQUISITIONS WITH VARIOUS CONTRACTORS AND CONTRACTING AGENCIES; MULTIPLE AWARD AND DELIVERY DATES, QUANTITIES AND UNIT COSTS. SOME CONTRACTOR EXAMPLES ARE: DIGITAL EQUIPMENT CORP, TAMPA, FL; AT&T, NORCROSS, GA; GTE, NEEDHAM HEIGHTS, MA; PARAMAX CORP, PAOLI, PA; ROCKWELL INTERNATIONAL, EL PASO, TX; BENDIX CORP LEXINGTON PARK, MD; AND HARRIS CORP, MELBOURNE, FL. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AUTOMATED TELECOMMUNICATIONS PROGRAM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$18,445 | \$15,496 | \$14,884 | \$14,232 | \$16,861 | \$10,942 | \$19,540 |
| <p>DESCRIPTION: This program acquires equipment necessary to implement Air Force E-Mail/messaging requirements for the Defense Message System (DMS). This system provides essential capabilities to carry on the wartime and peacetime missions of the Air Force in lieu of the base telecommunications centers and AUTODIN switches.</p> <p>DEFENSE MESSAGE SYSTEM (DMS)-AIR FORCE (AF): DMS-AF is the Air Force portion of a DoD initiative to replace today's message communications system which supports command and control, intelligence, logistics and sustaining forces. The baseline for DMS is the Automatic Digital Network (AUTODIN) and electronic mail (E-Mail) on the DoD Internet. The goal is to move message service off the AUTODIN onto a secure, fully mature, writer-to-reader E-Mail system which will ultimately allow closure of Telecommunications Centers (TCCs) by the year 2000 and will reduce maintenance and manpower costs. Four hundred seventy manpower slots (FY94-97) have been eliminated from Air Force TCCs in recognition of cost savings. In addition, 360 TCC manpower slots were taken (FY96-01) for reinvestment in DMS and Defense Information Infrastructure. Because of these manpower reductions, the Air Force must posture itself for closing TCCs and the shutdown of the AUTODIN.</p> <p>1. DMS Components: FY97 funds procured commercial User Agents and server software for 109,200 users at 30 bases, DMS Type I training, and engineering/installation services. FY98 will procure DMS products for 56 bases, supports Type I training, and engineering/installation services. FY99 funds will continue to provide DMS products for 8 bases, continues engineering/installation services, upgrades DMS at bases and the Technical Insertion Network facility, Gunter AFB, AL.</p> <p>2. Basic Infrastructure: FY97 funds procure basic information system infrastructure (connecting various base-level Local Area Networks into a Metropolitan Area Network) for 49 bases and additional components for the Gunter AFB, AL DMS software test-bed project and the Technical Insertion Network Facility. FY98 funds complete base infrastructure for 12 bases. No FY99 funds requested.</p> <p>3. Enhanced Security Capability: FY97 funded 15 Fortezza Cards and Card Readers (writer to reader end-to-end message security hardware). FY98 funds will procure the security product "Guard" (a DMS unclassified LAN to classified LAN security verification device) for 46 bases; FY99 funds will procure Fortezza Cards and Card Readers for 46 bases, as well as the security product "Guard" for 48 bases.</p> <p>4. Deployable DMS: FY98 funds the deployable Tactical DMS "proof of concept" project and will procure the initial deployment of Tactical DMS systems at 11 tactical units. FY99 continues the effort procuring deployable Tactical DMS systems at 214 tactical units.</p> | | | | | | | | |

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| | P-1 ITEM: 61 | | PAGE NO: 112 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AUTOMATED TELECOMMUNICATIONS PROGRAM |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|------------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| DMS-AF | | | | | | | | | | | | | |
| 1. DMS COMPONENTS (HW/SW) | A | | | | 30 | N/A[1] | 10,859 | 56 | N/A[1] | 9,286 | 8 | N/A[1] | 8,074 |
| 2. BASIC INFRASTRUCTURE | A | | | | 49 | N/A[1] | 6,036 | 12 | N/A[1] | 3,000 | | | |
| 3. ENHANCED SECURITY CAPABILITY | | | | | | | | | | | | | |
| FORTEZZA | A | | | | 15 | N/A[1] | 1,550 | | | | 46 | N/A[1] | 2,612 |
| GUARD | A | | | | | | | 46 | N/A[1] | 2,600 | 48 | N/A[1] | 2,688 |
| 4. DEPLOYABLE DMS | A | | | | | | | 11 | N/A[1] | 610 | 214 | N/A[1] | 1,510 |
| TOTAL | | | | | | | 18,445 | | | 15,496 | | | 14,884 |
| | | | | | | | | | | | | | |
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REMARKS:
1. HARDWARE UNIT COSTS VARY AND ARE DEPENDENT ON INDIVIDUAL SITE CONFIGURATIONS.

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AUTOMATED TELECOMMUNICATIONS PROGRAM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| DMS - AF | | | | | | | | | | |
| 1. DMS -AF COMPONENTS (HW/SW) | | | | | | | | | | |
| FY97 | 30 | N/A[1] | AFMC/SSG | IDIQ/FFP | LOCKHEED-MARTIN FED SYS (LMFS), MANASSAS, VA | OCT 96 | SEP 97 | | | |
| FY98 | 56 | N/A[1] | AFMC/SSG | IDIQ/FFP | LMFS, MANASSAS, VA | OCT 97 | JAN 98 | | | |
| FY99 | 8 | N/A[1] | AFMC/SSG | IDIQ/FFP | LMFS, MANASSAS, VA | OCT 98 | JAN 99 | YES | | |
| 2. BASE INFRASTRUCTURE | | | | | | | | | | |
| FY97 | 47 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | GSA, ULANA (EDS) HERNDON, VA | NOV 96 | APR 97 | | | |
| | 2 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | GSA, WORLDWIDE TECHNOLOGIES (WWT), ST LOUIS, MO | JUL 97 | AUG 97 | | | |
| FY98 | 12 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | GSA, (WWT), ST LOUIS, MO | OCT 97 | NOV 97 | | | |
| 3. ENHANCED SECURITY CAPABILITY | | | | | | | | | | |
| FORTEZZA CARDS | | | | | | | | | | |
| FY97 | 15 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | NATIONAL SECURITY AGENCY, NSA, FT MEADE MD SPYRUS, SAN JOSE, CA | OCT 97 | JUL 98 | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AUTOMATED TELECOMMUNICATIONS PROGRAM | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY99 | 46 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | NSA, FT MEADE MD SPYRUS, SAN JOSE, CA | OCT 98 | DEC 98 | YES | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| GUARD | | | | | | | | | | |
| FY98 | 46 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | NSA, FT MEADE MD SPYRUS, SAN JOSE, CA | OCT 97 | JUL 98 | | | |
| FY99 | 48 | N/A[1] | AFMC/SSG | MIPR, IDIQ/FFP | NSA, FT MEADE MD SPYRUS, SAN JOSE, CA | OCT 98 | DEC 98 | YES | | |
| | | | | | | | | | | |
| 4. DEPLOYABLE DMS | | | | | | | | | | |
| FY98 | 10 | N/A[1] | AFMC/SSG | IDIQ/FFP | LMFS MANASSAS, VA | OCT 97 | NOV 97 | | | |
| FY99 | 214 | N/A[1] | AFMC/SSG | IDIQ/FFP, | LMFS MANASSAS, VA | OCT 98 | NOV 98 | YES | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| REMARKS: GENERAL: QUANTITY REFLECTS NUMBER OF BASES. 1. HARDWARE UNIT COSTS VARY AND ARE DEPENDENT ON INDIVIDUAL BASE CONFIGURATIONS. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NAVSTAR GPS SPACE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$1,841 | \$1,490 | \$1,447 | \$3,830 | \$3,819 | \$4,152 | \$4,284 |
| <p>DESCRIPTION: The NAVSTAR Global Positioning System (GPS) satisfies validated joint service requirements for worldwide, accurate, common grid, three-dimensional positioning/navigation for military aircraft, ships, ground vehicles and ground personnel. The system is composed of three segments: (1) satellites, (2) a control network and (3) user equipment (UE). The satellites broadcast high accuracy data using precisely synchronized signals that are received and processed by UE installed in military platforms. The control network daily updates the navigation messages broadcast from the satellites to maintain system precision in three dimensions to 16 meters (spherical error probable) worldwide. The UE computes the platform position and velocity providing steering vectors to target locations or navigational waypoints.</p> <p>Air Force UE consists of 5-channel handheld sets, Precision Lightweight GPS Receiver (PLGR), (funded in Other Procurement Appropriation) and 5-channel airborne sets (funded in Aircraft Procurement Appropriation). The Defense Advanced GPS Receiver (DAGR) will be the follow-on to the PLGR. It will be a handheld self-contained GPS receiver with precise positioning utilizing the Selective Availability Anti-Spoofing Module (SAASM). The DAGR will be functionally backward compatible with PLGR existing interfaces and support equipment so that present integration and support capabilities are minimally affected. DAGR will be utilized in the stand alone mode, in track vehicles, in low dynamic aircraft, and weapons integration.</p> <p>1. PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR): The PLGR is a lightweight, handheld GPS set that receives satellite signals and processes the data into precise position and velocity information for low dynamic motion users. It is a non-developmental item which is being used primarily to support Air Liaison Officers (ALOs), Forward Air Controllers (FACs), Explosive Ordnance Disposal Teams, Security Police and Combat Control Teams (CCTs) by supplying precise position information on a universal grid reference system and time synchronization for anti-jam communications systems. FY93 funding began the large scale PLGR procurement including unique support equipment, production unit testing, and contractor technical support. FY97-98 funding continues PLGR procurement, which includes funding for various PLGR accessory items, e.g., helmet-mounted and remote antennae; vehicle installation mounts; alternating current (AC) power adapters; and cables allowing the PLGR to be connected to other PLGRs. Delivery of accessory items is tailored to individual users based on their specific mission requirements. Acquisition of PLGR will be completed in 1998. The program will remain active through the anticipated 10 year life of the receivers. The receivers were purchased with a six year warranty. Contractual action is in progress to extend the warranty to 10 years. PLGRs will continue to support the handheld GPS requirements of the DoD user well into the next century.</p> <p>2./3. TECHNICAL SAMPLE TESTING of next-generation user equipment concepts (DAGR) and PROGRAM SUPPORT is funded FY97-99.</p> <p>4. KLIF/GPS (KEY DATA LOADING INSTALLATION FACILITY) SECURITY DEVICE: This facility programs black key algorithms into SAASM chips providing an accurate solution for GPS users to obtain precise coordinates.</p> | | | | | | | | |
| | | | | P-1 ITEM: 62 | | | PAGE NO: 116 | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: NAVSTAR GPS SPACE |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| NAVSTAR GPS | | | | | | | | | | | | | |
| 1. PLGR/VEHICLE INSTALLATION SETS | A | | | | 800 | 1.015 | 812 | 650 | 1.200 | 780 | | | |
| 2. TECH SAMPLE TESTING | | | | | | | 422 | | | 232 | | | 650 |
| 3. PROGRAM SUPPORT | | | | | | | 535 | | | 292 | | | 320 |
| 4. KLIF/GPS SECURITY DEVICE | | | | | | | 72 | | | 186 | | | 477 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTAL | | | | | | | 1,841 | | | 1,490 | | | 1,447 |
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| REMARKS: | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | |
|--|------|-----------|-----------------|--|---|------------|------------------------|------------------------|----------------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NAVSTAR GPS SPACE | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| GPS USER EQUIPMENT | | | | | | | | | |
| 1. PLGR | | | | | | | | | |
| FY97 | 800 | 1.015 | AFMC/SMC | OPT/FFP MIPR[1] | ROCKWELL COLLINS CEDAR RAPIDS, IA | MAR 97 | SEP 97 | | |
| FY98 | 650 | 1.200 | AFMC/SMC | OPT/FFP/ MIPR[1] | ROCKWELL COLLINS CEDAR RAPIDS, IA | MAR 98 | SEP 98 | YES | |
| 2. TECH SAMPLE TESTING | | | | | | | | | |
| FY97 | | | AFMC/SMC | MIPR[2] | ARMY ELECTRONIC PROVING GROUND FORT HUACHUCA, AZ | MAR 97 | JUL 97 | | |
| FY98 | | | AFMC/SMC | MIPR[2] | ARMY ELECTRONIC PROVING GROUND FORT HUACHUCA, AZ | MAR 98 | JUL 98 | YES | |
| FY99 | | | AFMC/SMC | MIPR[2] | ARMY ELECTRONIC PROVING GROUND FORT HUACHUCA, AZ | MAR 99 | JUL 99 | YES | |
| 4. KLIF/GPS SECURITY DEVICE | | | | | | | | | |
| FY97 | | | AFMC/SMC | MIPR[3] | GSA FALLS CHURCH, VA | JUL 97 | N/A[3] | | |
| FY98 | | | AFMC/SMC | MIPR[3] | GSA FALLS CHURCH, VA | JUL 98 | N/A[3] | N/A | |
| FY99 | | | AFMC/SMC | MIPR[3] | GSA FALLS CHURCH, VA | JUL99 | N/A[3] | N/A | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|---|-------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NAVSTAR GPS SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| REMARKS: 1. OPTION TO FY93 COMPETITIVE FIRM FIXED PRICE CONTRACT TO ROCKWELL COLLINS. 2. MIPR IS USED FOR TECH SAMPLE TESTING BASED ON A MEMORANDUM OF AGREEMENT (MOA) BETWEEN AFMC AND THE ARMY ELECTRONIC PROVING GROUND, FORT HUACHUCA, AZ. 3. GSA IS COMPLETING WORK ON AN AS-NEEDED BASIS. MIPR IS USED FOR KLIF FACILITY BASED ON MOA BETWEEN AFMC AND GSA, FALLS CHURCH, VA. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: DEFENSE METEOROLOGICAL SATELLITE PROGRAM (SPACE) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$10,006 | \$11,366 | \$10,735 | \$6,126 | \$5,223 | \$4,793 | \$2,404 |
| <p>DESCRIPTION: The joint service Defense Meteorological Satellite Program (DMSP) mission is to provide an enduring and survivable capability through all levels of conflict to collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic, and solar-geophysical data to support worldwide DoD operations and high-priority programs. Timely, high quality data is supplied to Air Force Weather Agency, the Fleet Numerical Meteorological and Oceanography Center, and to deployed fixed and mobile ground and ship-based tactical data receipt and processing terminals worldwide. The Small Tactical Terminal (STT) program provides a highly mobile, current technology ground receiver for forward area weather support.</p> <p>SMALL TACTICAL TERMINALS (STT): The STT provides worldwide tactical users with a survivable "first-in" source of meteorological satellite data, processed by small, portable terminals in forward areas of conflict. These terminals process visual/thermal imagery and other non-imagery weather data to support combat forces. There are five versions of STTs: the basic version processes only low resolution satellite data; the enhanced version adds the capability to process high resolution data from polar-orbiting satellites; a Joint Task Force (JTF) version adds the capability to process high resolution satellite data from polar-orbiting and geostationary satellites and provides remoting capability; a Light Weight STT (L/W STT) a lighter, more capable version of the enhanced unit; and a stand alone STT workstation without antennas providing connectivity with the Global Broadcast Service (GBS) system. The total requirement for STTs is for 183 units for AF operations and AF weather teams assigned to Army units. Prior year funds procured 103 production STTs.</p> <p>FY97 funds procured 24 L/W STTs and 2 JTF STTs. FY98 funds procure 16 L/W STTs (for a total of 143 systems) and 32 high resolution geostationary antennas. FY99 funds procure 31 high resolution geostationary antennas (which buys out the inventory objective of 63 antennas) and 20 STT workstations.</p> Deficiencies identified during testing have either been corrected or were determined to be procedural to the primary customer and therefore not correctable via modifications. | | | | | | | | |

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| | P-1 ITEM: 63 | | PAGE NO: 121 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: DEFENSE METEOROLOGICAL SATELLITE PROGRAM (SPACE) |
|---|--|

| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| SMALL TACTICAL TERMINAL (STT) | | | | | VAR | N/A | (10,006) | VAR | N/A | (11,366) | VAR | N/A | (10,735) |
| L/W STT | A | | | | 24 | 244 | 5,856 | 16 | 229 | 3,664 | | | |
| JTF STT | A | | | | 2 | 317 | 634 | | | | | | |
| HI RES GEO ANTENNA | A | | | | | | | 32 | 183 | 5,856 | 31 | 187 | 5,797 |
| STT WORKSTATION | A | | | | | | | | | | 20 | 197 | 3,940 |
| NON-RECURRING COSTS | | | | | | | 1,613 | | | 266 | | | |
| ENGINEERING SUPPORT | | | | | | | 1,684 | | | 1,368 | | | 781 |
| PROGRAM SUPPORT | | | | | | | 219 | | | 212 | | | 217 |
| | | | | | | | | | | | | | |
| TOTAL | | | | | | | 10,006 | | | 11,366 | | | 10,735 |
| | | | | | | | | | | | | | |
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REMARKS:

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: DEFENSE METEOROLOGICAL SATELLITE PROGRAM (SPACE) |
|---|--|

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|-------------------------|------|-----------|-----------------|------------------------|-------------------------------|------------|------------------------|-----------------|----------------------|
| SMALL TACTICAL TERMINAL | | | | | | | | | |
| L/W STT | | | | | | | | | |
| FY97 | 24 | 244 | AFMC/SMC | OPT/FFP [1] | HARRIS CORP, MELBOURNE, FL | NOV 96 | JUN 98 | | |
| FY98 | 16 | 229 | AFMC/SMC | OPT/FFP [1] | HARRIS CORP, MELBOURNE, FL | NOV 97 | SEP 98 | | |
| JOINT TASK FORCE STT | | | | | | | | | |
| FY97 | 2 | 317 | AFMC/SMC | OPT/FFP [1] | HARRIS CORP, MELBOURNE, FL | MAY 97 | JUN 98 | | |
| HI RES GEO ANTENNA | | | | | | | | | |
| FY98 | 32 | 183 | AFMC/SMC | OPT/FFP [1] | HARRIS CORP, MELBOURNE, FL | AUG 98 | APR 99 | YES | |
| FY99 | 31 | 187 | AFMC/SMC | OPT/FFP [1] | HARRIS CORP, MELBOURNE, FL | NOV 98 | SEP 99 | YES | |
| STT WORKSTATION | | | | | | | | | |
| FY99 | 20 | 197 | AFMS/SMC | OPT/FFP [1] | HARRIS CORP, MELBOURNE, FL | NOV 98 | SEP 99 | YES | |
| | | | | | | | | | |

REMARKS:
 1. SMALL TACTICAL TERMINAL (STT) BASIC CONTRACT (#F04701-94-0019) WAS AWARDED ON 15 JUN 94. BASIC CONTRACT FOR STT's ENDED IN FY96. FY97 AND SUBSEQUENT YEARS ARE EXTENDED OPTIONS NEGOTIATED WITH HARRIS CORP.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NUDET DETECTION SYSTEM (NDS) SPACE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$2,085 | \$7,792 | \$1,278 | \$1,741 | \$1,540 | \$3,370 | \$ 0 |
| <p>DESCRIPTION: The United States Nuclear Detonation (NUDET) Detection System (USNDS) provides a worldwide, highly survivable capability to detect, locate, and report nuclear detonations in the earth's atmosphere or in near space in near real-time. NDS supports NUDET detection requirements for U.S. Space Command (USSPACECOM) (Integrated Tactical Warning and Attack Assessment (ITW/AA)), US Strategic Command (USSTRATCOM) (nuclear force management), and the Air Force Technical Applications Center (AFTAC) (treaty monitoring). USNDS consists of space and ground mission processing segments. The space segment consists of NUDET detection sensors on both the Global Positioning System (GPS)/NDS satellites and the Defense Support Program (DSP)/NDS satellites. The ground mission processing segment consists of the GPS/NDS Integrated Correlation and Display System (ICADS), the Ground NDS Terminals (GNT), and the DSP/NDS Advanced Radiation Detection Units (ARDU).</p> <p>NDS USER EQUIPMENT: The GNTs process raw NDS sensor data and are the only systems that provide survivable NUDET detection, analysis, and reporting to the DoD and the National Command Authorities (NCA). Presently, the USNDS supports national level missions for AFSPC, US Space Command (USSPACECOM), USSTRATCOM, Air Combat Command (ACC), AFTAC, NCA, and Congress. NUDET reporting is required for the ITW/AA, nuclear force management (NFM), and nuclear test ban treaty monitoring missions. NUDET reporting has recently been reemphasized by the Chairman of the Joint Chiefs of Staff as the second highest priority of attack information required by the warfighters. In addition, a Presidential Decision Directive requires space-based monitoring as a key part of the treaty monitoring and verification process for the Comprehensive Test Ban Treaty (CTBT). Finally, as the threat from nations with nuclear weapons continues to grow, the ICADS (GPS) and ARDU (DSP) are the only operational systems that detect, locate, and identify an atmospheric or space NUDET. The FY97 funds for the ICADS procured the GPS receivers to replace existing receivers, serial port controllers, track recording devices for mission data, and user terminals. The FY97 funds for the ARDU procured mission data computer printers and upgraded obsolete system workstations. FY98 funding begins communications upgrades to the ICADS ground system to support compatibility between the two new blocks of GPS satellites (Block IIR and Block IIF). FY98 funding also provides Electro-Magnetic Pulse (EMP) antenna hardening (enabling antennas to withstand high EMP bursts) on ground-based antennas that receive NDS data from satellite sensors. Moreover, FY98 funding provides for a GNT upgrade to process the new Block IIR GPS satellite information. FY99 will continue life cycle replacement of ICADS computers, receivers, antennas and communication links.</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: NUDET DETECTION SYSTEM (NDS) SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| NDS USER EQUIPMENT | | | | | | | | | | |
| ICADS HARDWARE UPGRADE | | | | | | | | | | |
| FY97 | VAR | N/A[1] | AFMC/SMC | MIPR/OPT[2] | DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM | DEC 96 | DEC 97 | | | |
| FY98 | VAR | N/A[1] | AFMC/SMC | MIPR/OPT[2] | DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM | DEC 97 | DEC 98 | | | |
| FY99 | VAR | N/A[1] | AFMC/SMC | MIPR/OPT[2] | DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM | DEC 98 | DEC 99 | YES | | |
| ARDU HARDWARE UPGRADE | | | | | | | | | | |
| FY97 | VAR | N/A[1] | AFMC/SMC | MIPR/OPT[2] | DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM | DEC 96 | DEC 97 | | | |
| EMP ANTENNA HARDENING | | | | | | | | | | |
| FY98 | VAR | N/A[1] | AFMC/SMC | MIPR/OPT[2] | DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM | DEC 97 | DEC 98 | | | |
| GNT UPGRADE | | | | | | | | | | |
| FY98 | VAR | N/A[1] | AFMC/SMC | MIPR/OPT[2] | DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM | DEC 97 | APR 98 | | | |
| | | | | | | | | | | |
| REMARKS: 1. UNIT COSTS VARY DUE TO MULTIPLE TYPES OF COMPUTER HARDWARE BEING PROCURED. 2. OPTION TO DEPT OF ENERGY (DOE)/SANDIA NATIONAL LABS FIRM FIXED PRICE CONTRACT #92-920330, DATED APR 92. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$7,237 | \$22,459 | \$26,007 | \$23,987 | \$32,658 | \$40,850 | \$41,771 |
| <p>DESCRIPTION: The Air Force Satellite Control Network (AFSCN) is a global infrastructure of control centers, remote tracking stations, and communications links that provide the highly reliable command and control, communications, and range systems required to support the nation's surveillance, navigation, communications, and weather satellite operations. The AFSCN is the DoD common user network that provides satellite state-of-health, tracking, telemetry, and commanding (TT&C) for the following operational satellite systems: Defense Satellite Meteorological Program (DMSP), Global Positioning System (GPS), Defense Satellite Communications System (DSCS), Defense Support Program (DSP), Fleet Satellite (FLTSAT), Military Strategic and Tactical Relay Satellite (MILSTAR), Skynet, North Atlantic Treaty Organization (NATO) and classified programs. The AFSCN also provides mandatory launch and early orbit tracking operations in support of all major US launches.</p> <p>Air Force Space Command (AFSPC) performs operations and maintenance and Air Force Materiel Command (AFMC) performs modernization and sustainment of the system to meet requirements validated by a HQ USAF approved Operational Requirements Document (ORD). The Satellite and Launch Control Systems Program Office, located at Space and Missile Systems Center (SMC), is the system acquisition manager. Under the direction of the SMC System Program Director, Sacramento Air Logistics Center (SM-ALC) has been designated as the Support System Manager and the Source of Repair for that portion of the AFSCN systems operated by Air Force Space Command.</p> <p>This project procures mission critical electronics and telecommunications equipment for aging command and control, communications (C3), and range elements of the AFSCN to ensure DoD space systems are operationally ready to support the Commanders-in-Chief (CINCs) warfighting requirements.</p> <p>AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT AND MODERNIZATION (AFSCN I&M): AFSCN I&M is an on-going program of replacements and upgrades which will meet HQ USAF validated AFSPC operational requirements to replace non-standard, unsupportable equipment with commercial-off-the-shelf (COTS) hardware and software. This new equipment will enable AFSPC satellite operations to be performed with fewer and lower skill level personnel, and will significantly reduce hardware/software (HW/SW) maintenance costs. The principal efforts within this program are:</p> <p>a. COMMAND & CONTROL SYSTEM UPGRADES (CCSU): The Resource Management System (RMS), which deconflicts and allocates network telemetry, tracking & command (TT&C) assets to support operational space vehicles will be replaced with an automated system which includes selected orbit and radio frequency interference functions to enable more rapid and efficient use of network resources. This evolution offers tremendous potential for reducing satellite control operations & maintenance (O&M) costs through enhanced commonality and standardization, simplified operations, and automation. COTS HW/SW will be used to the maximum extent possible.</p> <p>FY97 funding provided additional workstations and servers to support orbit analysis functionality of the RMS. The funding also purchased and installed workstations and servers at the Satellite Operations Centers (SOCs) and Remote Tracking Stations (RTSs) to provide Electronic Schedule Dissemination</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE | |
| <p>(ESD), to provide an early, limited enhanced resource management capability until RMS is fully operational in FY99. Funding also provides workstations, servers, and additional security validator equipment for the Realignment of Orbit Analysis Capability (ROAC) effort, to operate orbit analysis functions at the higher than secret level at Falcon AFB.</p> <p>FY98 funding procures and installs twenty additional workstations and five additional servers to support orbit analysis functionality of the RMS at the RTSS.</p> <p>FY99 funds will procure and install eight additional workstations and two additional servers to support orbit analysis functionality of the RMS at the RTSS.</p> <p>b. RANGE AND COMMUNICATIONS UPGRADES: These projects will transition the current, costly point-to-point AFSCN communications network to a communications grid system that integrates government and commercial networks as technology becomes available. Several standardization efforts are being implemented to improve and modernize the communications and ground segment elements of the AFSCN, including: (1) archival recorder systems to replace obsolete, manpower-intensive analog equipment with automated, standardized digital COTS systems; (2) a Centralized Control & Monitor (CC&M) system which will consolidate communications operations, provide remote control of tracking station communication equipment, and increase fault detection and isolation capabilities to reduce O&M costs; and (3) Wide Area Network Interface Units (WANIU) which standardize hardware, enable future access to the Defense Information System Network (DISN) global grid, and reduce O&M costs for performing multiplexing functions in the AFSCN. Capacity, reliability, data quality, and user access to the AFSCN will be improved.</p> <p>FY97 funding provided equipment to correct system deficiencies as identified and prioritized by AFSPC as part of the overall Range and Communications plan. These include expanding the Falcon AFB Operational Traffic Switching System to meet immediate AFSPC and external user requirements until a switch upgrade is implemented in FY00. Funds also procured and installed uplink filters for Automated Remote Tracking Station (ARTS) and Data Link Terminal antennas. The filters were required to reduce interference and comply with FCC regulations.</p> <p>FY98 funding procures COTS-based equipment for the first Operational Switch Replacement (OSR) to be installed at Falcon AFB to provide Asynchronous Transfer Mode (ATM) switching capability for the AFSCN, increase capacity, and improve maintainability and sustainability. Funding also procures an 11 meter antenna to replace the aging 23 foot antenna at Thule Tracking Station. Additionally, funding procures replacement of aging RTS remote control status equipment at Thule Tracking Station with new hardware and software that will permit interface with the new Automated Remote Tracking Station (ARTS) core and ARTS compatible antenna.</p> <p>FY99 funding will procure equipment for a second OSR; this redundancy will meet AFSPC requirements that specify there shall be no single points of failure and that all missions will not completely realign to a single control node.</p> <p>c. SECURITY UPGRADES: These security upgrade projects improve security for assets essential to the assured operational capability of the AFSCN. FY 98 funding procures and installs equipment to replace computers in the existing security control system buried-line intrusion detection system on the perimeter of the AFSCN control node at Falcon AFB.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK SPACE | |
| <p>FY 99 funding will replace the security control system microwave intrusion detection system at the AFSCN Control Node with an infrared detection system, and will procure and install equipment for Defense Satellite Communications System building to interface with the security control system at Falcon AFB, CO.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|-------|-----------|-----------------|--|--|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: AIR FORCE SATELLITE CONTROL NETWORK (AFSCN) | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| AFSCN I&M | | | | | | | | | | |
| A. COMMAND & CONTROL UPGRADES | | | | | | | | | | |
| FY97 | 1 [1] | N/A [2] | AFMC/SMC | OPT/CPAF [5] | LOCKHEED MARTIN FEDERAL SYSTEMS (LMFS), COLORADO SPRINGS, CO | JUL 97 | MULT [7] | | | |
| FY98 | 1 [1] | N/A [2] | AFMC/SMC | OPT/CPAF [5] | LMFS, COLORADO SPRINGS, CO | DEC 97 | MULT [7] | | | |
| FY99 | 1 [1] | N/A [2] | AFMC/SMC | OPT/CPAF [5] | LMFS, COLORADO SPRINGS, CO | DEC 98 | MULT [7] | [3] | SEP 98 | |
| B. RANGE AND COMM UPGRADES | | | | | | | | | | |
| FY97 | 1 [1] | N/A [2] | AFMC/SMC | OPT/CPAF [6] | LOCKHEED MARTIN SUNNYVALE, CA | JUL 97 | MULT [7] | | | |
| FY98 | 1 [1] | N/A [2] | AFMC/SMC | OPT/CPAF [6] | LOCKHEED MARTIN, SUNNYVALE, CA | DEC 97 | MULT [7] | | | |
| FY99 | 1 [1] | N/A [2] | AFMC/SMC | OPT/CPAF [6] | LOCKHEED MARTIN, SUNNYVALE, CA | DEC 98 | MULT [7] | [3] | SEP 98 | |
| C. SECURITY UPGRADES | | | | | | | | | | |
| FY98 | 1 [1] | N/A [2] | AFMC/SM-ALC | OPT/CPAF [4] | ALIIED SIGNAL, COLORADO SPRINGS, CO | OCT 97 | MULT [7] | | | |
| FY99 | 1 [1] | N/A [2] | AFMC/SM-ALC | OPT/CPAF [4] | ALIIED SIGNAL, COLORADO SPRINGS, CO | OCT 98 | MULT [7] | [3] | SEP 98 | |
| REMARKS: | | | | | | | | | | |
| <ol style="list-style-type: none"> Quantities indicate one lot of equipment associated with a specific operational capability. Unit costs vary because of different types/configurations of equipment being procured. Specifications are not now available. They are generated for each individual project to satisfy specific operational needs. Option to prior year SM-ALC equipment contract for security systems with Allied Signal Corporation, Colorado Springs, CO. Option to prior year Lockheed Martin Federal Systems (LMFS), Colorado Springs, CO, May 96 contract. Option to prior year Lockheed Martin Western Development Labs, Sunnyvale, CA, Mar 96 contract. Multiple delivery dates for various end items/systems. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS & MODERNIZATION (I&M) SPACE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$99,175 | \$79,255 | \$93,848 | \$80,918 | \$96,931 | \$151,136 | \$144,384 |
| <p>DESCRIPTION: The Eastern Range (ER), headquartered at Patrick AFB, FL, and the Western Range (WR), headquartered at Vandenberg AFB, CA are the nation's Spacelift Ranges that provide tracking, telemetry, communications, command/control, and other capabilities necessary to safely conduct Department of Defense, civil, and commercial spacelift operations, intercontinental and sea-launched ballistic missile operational test and evaluations (T&E), and aeronautical and guided weapons T&E.</p> <p>Range assets are based on outdated design and technology. Consequently, they are highly inefficient and manpower-intensive to operate and maintain. Range instrumentation reliability continually deteriorates and many components are obsolete. Today's Spacelift Ranges do not provide the responsiveness and flexibility critical to affordably and reliably meet the nation's spacelift needs. Replacement of these aging systems is an Air Force Space Command priority. Accordingly, the Air Force is upgrading the Spacelift Ranges through two closely related modernization efforts. Range Standardization and Automation (RSA) will improve operability, reliability, and supportability while reducing operations and maintenance costs, and the Improvement and Modernization (I&M) program will provide continuing range upgrades to leverage technology advances and preclude obsolescence.</p> <p>Following are details of the FY97-99 program:</p> <p>1. RANGE STANDARDIZATION AND AUTOMATION (RSA): The RSA program will completely overhaul and modernize both the ER and the WR, treating the two as a single integrated range system with an eastern and western segment. RSA will use remote control and automation techniques to reduce the number of operators, sites and facilities. RSA will replace or eliminate over 25,000 obsolete components, many of which have no sources for spares. RSA will standardize equipment and operations across both ranges; eliminating reliance upon separate, non-standard logistics support and depot maintenance infrastructures. The result will be a range system reconfigurable from one major operation to another in less than four hours versus 2-3 days; operations and maintenance costs 20 percent less than current ranges; enhanced range safety capability to reduce the risk of destroying a good launch vehicle due to Spacelift Range instrumentation failure; standardized architecture, operations and logistics support. RSA is critical to the future of the Spacelift Ranges; performance and cost goals cannot be achieved without RSA.</p> <p>a. RSA PHASE I:</p> <p>The RSA Phase I contract was awarded in June 1993. It upgrades communications and instrumentation systems on the ER and at downrange sites at Antigua and Ascension Islands. It also procures a common telemetry processing system for both Spacelift Ranges. The Research, Development, Test, and Evaluation (RDT&E) supporting this effort is under Budget Activity 7, Operational Systems Development, and the associated RDT&E funding is in PE 35182F.</p> <p>In FY97, the RSA Phase I contract purchased commercial-off-the-shelf equipment for the Satellite Communications System supporting the ER, as well as the</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS & MODERNIZATION (I&M) SPACE | |
| <p>Centralized Telemetry Processing System (CTPS) and Cape Fiber Optic Network (CFON).</p> <p>In FY98, the RSA Phase I effort procures supplemental manuals for field technical support, peculiar and common support equipment, and a satellite communications antenna pad.</p> <p>In FY99, the RSA Phase I contract will purchase peculiar and common support equipment.</p> <p>b. RSA PHASE IIA:</p> <p>The RSA Phase IIA contract was awarded in November 1995. It includes integrated Research, Development, Test, and Evaluation (RDT&E) and the procurement efforts described herein to provide a complete Spacelift Range System (SLRS) as defined by a System Specification and Baseline System Description. It will replace range safety, tracking, telemetry, surveillance, weather, optics, and communications systems. It will also provide consoles and related equipment, local area networks, computers, and software for a new Western Range Operations Control Center (WROCC). The RSA Phase IIA contract includes six Range Delivery Increments (RDI). Incremental delivery of products on the RSA Phase IIA contract will expeditiously provide an operational capability. The last RDI is projected for operational turnover in 2005. This contract continues through 2006 to integrate the product deliveries from the follow-on RSA Phase IIB and related I&M projects. As with RSA Phase I, the associated RDT&E effort is under Budget Activity 7, Operational Systems Development. Consolidated RDT&E funding for both ranges is in PE 35182F.</p> <p>FY 97 funds were used to exercise the option of RSA Phase IIA RDI-1. RDI-1 included Control and Display Infrastructure hardware and software required to centralize command, control and coordination of SLRS activities and resources; Planning and Scheduling Product Items containing software to build and maintain plans in support of operations, and to update range allocations in response to current equipment status; and Weather Instrumentation Product Items to predict weather at the launch pad, at downrange instrumentation sites, along the flight path, and in the impact area.</p> <p>FY98 funds are to exercise the options of RSA Phase IIA RDI-2. RDI-2 includes the Network Core Product Item, a subsystem composed of the fiber optic infrastructure. It includes separate rings for analog (telemetry) and digital (video, voice, data, and command/destruct) data. RDI-2 includes the Network Management Product Item which monitors the health and status of individual assets within the network to provide real-time control for continuous connectivity. It has an expert system for alarm detection and for fault detection and isolation. FY98 funds will also start the Range Safety Processor replacement project (urgent supportability need at the ER), part of a phased, comprehensive Range Safety system upgrade under RSA Phase IIA RDI-3.</p> <p>FY99 funds will be used to exercise additional RDI-2 and RDI-3 options. These options will include: elements for network data, voice, and video components; elements of Flight Operations and Analysis product items which perform range safety analysis functions before, during, and after launches; and interim contractor support for the hardware being installed and tested at the ranges in FY99.</p> <p>2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION (I&M). The I&M program enhances critical systems to maintain adequate capabilities until RSA is implemented; upgrades fielded systems to be compatible with RSA; and continues to improve the ranges after RSA is implemented. To comprehensively manage the range I&M program, the Air Force defines the components/functions of both the ER and WR as an integrated weapon system</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS & MODERNIZATION (I&M) SPACE | |
| <p>consisting of three major segments: Instrumentation, Network and Control/Display. The Instrumentation Segment provides range safety and user metric data through the use of launch vehicle telemetry, weather instruments, metrics, optics, and uplink capabilities. Mobile assets are included to provide flexibility in mission support and backup for out-of-service fixed assets. The Network Segment provides the conduit for sending all voice, video, and data to and from remote and local instrumentation sites. This is accomplished through land lines, fiber optics circuits, and radio frequency communications (including microwave and satellites). The Control and Display Segment contains the control centers, hardware, and software required to provide command and control of day-to-day range and launch operations.</p> <p>a. INSTRUMENTATION SEGMENT:</p> <p>FY97 funds procured additional upgrades to existing range systems to interface with RSA Phase I, procured equipment to activate the Consolidated Instrumentation Facilities (CIF) at the ER downrange sites, and procured Ground Translator Processor Systems (GTPS) at Jonathan Dickinson Missile Tracking Annex for range safety tracking. FY97 funds also procured upgrades to the Lightning Surveillance System.</p> <p>FY98 funds procure new equipment to activate the CIFs at Cape Canaveral Air Station (CCAS), Antigua, and Ascension Island. In addition, FY98 funds will initiate instrumentation upgrades to improve Multiple Object Tracking Radar (MOTR) capabilities at CCAS.</p> <p>FY99 funds will complete replacement of the radar/telemetry site computers and upgrades to MOTR, continue the CIF activation effort, provide the capability to process full range video data for post-operation analysis, and build a new radar feed mechanism for an Ascension Island tracking radar.</p> <p>b. NETWORK SEGMENT:</p> <p>FY97 funds provided clock feeds at the Cape Fiber Optic Network (CFON) nodes required for RSA Phase 1 CFON installation/test, extended access to the CFON, and replaced obsolete and unsupported Transistorized Operational Phone System and point-to-point phones. At CCAS and the downrange sites, FY97 funds initiated a configuration management tool for controlling changes to cable layouts and a time transfer system for efficient time synchronization between the master, range, and station clocks. Also funded were replacement of timing frequency standards which are becoming obsolete and unsupported, and sustainment of sequencer and count distribution systems.</p> <p>FY98 funds replace existing analog voice communications systems at CCAS with a Digital Intercom System, which support both secure and non-secure voice communications, and upgrade communications cables. In addition, funds complete the Time Transfer System, provide a site clock monitoring system, and upgrade the Count Distribution System to increase automation, improve maintainability, and reduce overall manpower requirements at all sites.</p> <p>FY99 funds will complete acquisition/installation/integration of the Digital Intercom System and upgrade additional communications cables at CCAS.</p> <p>c. CONTROL & DISPLAY SEGMENT:</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS & MODERNIZATION (I&M) SPACE | |
| <p>FY97 funds provided additional upgrades to existing range systems at CCAS and the downrange sites to interface to the RSA Phase I design and protocols, continued modernization of additional meteorological and mission processing and display systems, and initiate a range instrumentation simulator to exercise all instrumentation paths prior to committing to launch.</p> <p>FY99 funds will initiate replacement of the Meteorological Sounding System with a Global Positioning System based sounding system and replace the NASA Lightning Detection and Ranging System with a supportable range asset, both at CCAS.</p> <p>3. WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION (I&M). See paragraph 2 for a general description of the I&M program common to the Eastern and Western Spacelift Ranges and an explanation of the following segments applicable to both ranges.</p> <p style="margin-left: 20px;">a. INSTRUMENTATION SEGMENT:</p> <p>FY97 procured life extension modifications/upgrades for instrumentation, surveillance radars, telemetry, weather, and command destruct systems at Vandenberg AFB, CA and the other ranges sites. A radar automatic phasing system was implemented to fully utilize the Multiple Object Tracking Radar (MOTR) at Vandenberg with the other single object tracking radars at the Western Range sites. Additional ocean surveillance sensors and upgrades were procured at Vandenberg to provide greater coastline coverage and minimize risks to public safety.</p> <p>FY98 funds procure life extension modifications for optics (Vandenberg AFB, CA, Santa Ynez Peak, CA, and Anderson Peak, CA), in addition to continued life extension modifications for telemetry (Vandenberg and Pillar Point Air Station, CA) and command systems. The funds also procure system modifications to reduce command destruct system deficiencies at Vandenberg, Pt Mugu, CA, and Pillar Point Air Station (PPAS); improvements that enhance reliability and maintainability of two telemetry receiving stations; and refurbishment of a mobile optics system at Vandenberg. The funds also enable integration of the second mobile telemetry receiving van into the range systems, integration of upper air winds data into the weather operator displays, and replacement of aging telemetry decommutators, all at Vandenberg.</p> <p>FY99 funds will continue procurement of life extension modifications to command destruct (Vandenberg, PPAS, and Point Mugu), radar (Vandenberg, PPAS, and Hawaii) and optics systems (Vandenberg, Santa Ynez, and Anderson Peak). These upgrades will reduce command destruct system deficiencies; replace unreliable radar data storage devices, and replace unmaintainable optics cameras.</p> <p style="margin-left: 20px;">b. NETWORK SEGMENT:</p> <p>FY97 funds procured replacements to operational voice system and video systems at Vandenberg, replaced Frequency Control and Analysis test vans, procured replacements for the secure command transmitter decoders at Vandenberg and Pt Mugu, and upgraded the Frequency Monitoring Station (FMS) Telemetry Monitoring Station at Vandenberg.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENTS & MODERNIZATION (I&M) SPACE | |
| <p>FY98 funds procure a new data transfer system at Vandenberg and Santa Ynez Peak to improve connectivity with the Naval Air Weapons Center, upgrade the Operational Telecommunications Switching System (OTSS) and the classified OTSS at Vandenberg, and install an external interface area in the Data Transfer Center at Vandenberg. FY98 funds also address deficiencies in the command transmitter communications, audio, and distribution control systems at Vandenberg and provide for upgrades to the Vandenberg fiber optics infrastructure.</p> <p>FY99 funds procure digital voice communications panels at Vandenberg and PPAS, upgrade existing directional and omni antenna at the Frequency Monitoring Station and the Operational Support Test Facility at Vandenberg, and procure new frequency monitoring and Radio Frequency Interference vans for use at Vandenberg and the other sites.</p> <p>c. CONTROL & DISPLAY SEGMENT:</p> <p>FY97 funds purchased the Data Distribution Interface to the Range Safety Deficiencies Corrections system, and the Range Safety Telemetry System at Vandenberg.</p> <p>FY98 funds will procure replacement computers for the Metric Data Processing System at Vandenberg to sustain this system until it is replaced by RSA, and upgrade the data center printer plotters at Vandenberg.</p> <p>FY99 - No funding requested.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|--|---------------|--|--|--|---------|---|---------------|---------|--------------|---------------|------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) SPACE | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. RANGE STANDARDIZATION & AUTOMATION (RSA) | | | | | VAR | NA | (44,230) | VAR | NA | (44,815) | VAR | NA | (59,746) |
| A. RSA PHASE I | A | | | | | | 6,499 | | | 2,082 | | | 350 |
| B. RSA PHASE IIA | A | | | | | | 37,731 | | | 42,733 | | | 59,396 |
| 2. EASTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) | | | | | VAR | NA | (26,199) | VAR | NA | (17,210) | VAR | NA | (24,102) |
| A. INSTRUMENTATION SEGMENT | A | | | | | | 10,774 | | | 1,470 | | | 8,332 |
| B. NETWORK SEGMENT | A | | | | | | 13,201 | | | 15,740 | | | 13,000 |
| C. CONTROL & DISPLAY SEGMENT | A | | | | | | 2,224 | | | | | | 2,770 |
| 3. WESTERN RANGE I&M | | | | | VAR | NA | (28,746) | VAR | NA | (17,230) | VAR | NA | (10,000) |
| A. INSTRUMENTATION SEGMENT | A | | | | | | 3,737 | | | 5,265 | | | 4,000 |
| B. NETWORK SEGMENT | A | | | | | | 16,077 | | | 8,863 | | | 6,000 |
| C. CONTROL/DISPLAY SEGMENT | A | | | | | | 8,932 | | | 3,102 | | | |
| TOTAL | | | | | | | 99,175 | | | 79,255 | | | 93,848 |
| REMARKS: | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. RANGE STANDARDIZATION AND AUTOMATION (RSA) | | | | | | | | | | |
| RSA PHASE I [1] | | | | | | | | | | |
| FY97 | VAR | N/A [2] | AFMC/SMC | OPT/CPAF [3] | HARRIS CORP MELBOURNE, FL | MULT[4] | MULT[4] | | | |
| FY98 | VAR | N/A [2] | AFMC/SMC | OPT/CPAF [3] | HARRIS CORP MELBOURNE, FL | MULT[4] | MULT[4] | YES | | |
| FY99 | VAR | N/A [2] | AFMC/SMC | OPT/CPAF [3] | HARRIS CORP MELBOURNE, FL | MULT[4] | MULT[4] | YES | | |
| RSA PHASE IIA | | | | | | | | | | |
| FY97 | VAR | N/A [2] | AFMC/SMC | OPT/CPAF/CPFF [5] | LOCKHEED MARTIN SUNNYVALE, CA | MULT [6] | MULT [6] | | | |
| FY98 | VAR | N/A [2] | AFMC/SMC | OPT/CPAF/CPFF [5] | LOCKHEED MARTIN SUNNYVALE, CA | MULT [6] | MULT [6] | | | |
| FY99 | VAR | N/A [2] | AFMC/SMC | OPT/CPAF/CPFF [5] | LOCKHEED MARTIN SUNNYVALE, CA | MULT [6] | MULT [6] | YES | | |
| 2. EASTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) | | | | | | | | | | |
| INSTRUMENTATION SEGMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | | | |
| FY98 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| FY99 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| NETWORK SEGMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY98 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| FY99 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| CONTROL & DISPLAY SEGMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | | | |
| FY99 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| 3. WESTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) | | | | | | | | | | |
| INSTRUMENTATION SEGMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | | | |
| FY98 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| FY99 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| NETWORK SEGMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | | | |
| FY98 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| FY99 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |
| CONTROL & DISPLAY SEGMENT | | | | | | | | | | |
| FY97 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | | | |
| FY98 | VAR | N/A [2] | HQ AFSPC | C/FP | MULT [7] | MULT [7] | MULT [7] | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|-------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: EASTERN/WESTERN RANGE IMPROVEMENT & MODERNIZATION (I&M) SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| REMARKS: 1. THE RSA PHASE I CONTRACT IS FOR RADAR TRACKERS AND TRANSMITTERS FOR THE EASTERN RANGE (ANTIGUA AND ASCENSION DOWNRANGE STATIONS), FIBER OPTICS AND SATELLITE COMMUNICATIONS NETWORKS FOR THE EASTERN RANGE, AND CENTRAL TELEMTRY PROCESSING SYSTEMS FOR THE EASTERN AND WESTERN RANGES. 2. UNIT COSTS VARY BECAUSE OF DIFFERENT TYPES/CONFIGURATIONS OF EQUIPMENT BEING PROCURED. 3. THIS IS AN OPTION TO COMPETITIVE FY93 COST PLUS AWARD FEE CONTRACT TO HARRIS CORP. IN JUNE 1993. 4. FOR RSA PHASE I, THERE ARE MULTIPLE OPTION AWARD DATES AND DELIVERY DATES ASSOCIATED WITH MULTIPLE PROCUREMENT ITEMS FOR EACH FISCAL YEAR. 5. THIS IS AN OPTION TO FY96 COMPETITIVE CONTRACT TO LOCKHEED MARTIN IN NOV 95. 6. FOR RSA PHASE IIA, IN EACH FY THERE ARE MULTIPLE OPTION AWARDS AND ASSOCIATED DELIVERY DATES FOR VARIOUS RELATED PRODUCT ITEMS WHICH COMPRISE EACH RANGE DELIVERY INCREMENT OR CAPABILITY AREA. 7. I&M PROCUREMENT WILL CONSIST OF NUMEROUS INDIVIDUAL COMPONENTS TO RETROFIT OBSOLETE AND WORN OUT EQUIPMENT CURRENTLY IN USE UNTIL REPLACED BY RSA OR FOR USE WITH RSA. COMPONENTS ARE INTEGRATED BY THE RANGE CONTRACTOR (COMPUTER SCIENCES/RAYTHEON AT CAPE CANAVERAL AIR STATION, FL OR ITT FEDERAL SYSTEMS AT VANDENBERG AFB, CA). CONTRACTORS ARE TYPICALLY GENERAL ELECTRIC/RCA, RAYTHEON, DATRON, CONTROL DATA CORP, GOULD SEL SYSTEMS, COLLINS, HEWLETT-PACKARD, TELEDYNE, VARIAN AND SEVERAL SMALL BUSINESSES LOCATED AT OR NEAR VANDENBERG AFB OR CAPE CANAVERAL AIR STATION. THERE ARE MULTIPLE AWARD AND DELIVERY DATES ASSOCIATED WITH THE MULTIPLE I&M CONTRACTS FOR EACH SEGMENT IN EACH FY. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: MILSATCOM SPACE |
|---|---|

| | FY 1996 | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|
| QUANTITY | | | | | | | | |
| COST (in thousands) | \$ | \$58,422 | \$18,034 | \$28,233 | \$44,541 | \$32,187 | \$28,174 | \$21,455 |

DESCRIPTION:
MILSATCOM is a set of joint service satellite communications systems that provides a broad range of satellite communication capabilities to include secure, jam-resistant, 24-hour, worldwide communications to meet essential strategic, tactical, and general purpose operational requirements for high-priority military users. The equipment supports validated communication requirements for the National Command Authorities (NCA), Unified and Specified Commanders-in-Chief (CINC), services and agencies.

Research, Development, Test and Evaluation (RDT&E) funding for these projects is reported in Appropriation 3600F RDT&E, Program Element #0303601F.

1. MILSTAR - AF TERMINALS: The Air Force is responsible for the procurement of Command Post Terminals and ground-based mission control equipment to operate over the Milstar satellite communications system.

a. COMMAND POST TERMINALS: Command Post Terminals (CPTs) support communications at major NCA and CINC command centers, as well as the relay of warning data from sensor sites. Prior year funding procured 59 ground terminals (nine fixed extremely high frequency/ultra high frequency (EHF/UHF), 28 fixed EHF-only, six transportable EHF/UHF, seven transportable EHF-only, two EHF/UHF platform sets, and seven EHF-only platform sets). FY97 funds provided installation support, factory repair, system engineering and program support, and provided for terminal enhancements such as computer processor upgrades. FY98 funds continue program support. FY99 funds will continue to provide installation support, terminal enhancement, factory repair and program support.

2. MILSTAR TACTICAL TERMINALS: Certain Air Force users require extremely high frequency (EHF) Milstar connectivity, but with different capability than that provided by the Command Post Terminals. These users will employ two types of Army-procured ground tactical terminals to satisfy the Milstar requirements.

a. SINGLE CHANNEL ANTI-JAM MAN-PORTABLE (SCAMP) TERMINALS: SCAMP is a single channel 37 pound portable terminal designed for use with multiple Milstar EHF systems. It is capable of transmitting/receiving Low Data Rate (LDR) voice, data and facsimiles. The Air Force procurement of SCAMP supports HQ US Strategic Command (USSTRATCOM) and Air Force Special Operations Command (AFSOC) communications requirements. FY97 funds procured 99 SCAMPs and 32 of the required 53 input/output devices for USSTRATCOM's Strategic Aircraft Recovery Teams (SART), and initiates installation and integration of this equipment. FY98/99 funding provides engineering and program support to complete the integration and installation effort.

b. SECURE, MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T): SMART-T is a multi-channel communications platform being designed by the US Army for use with Milstar EHF. It is capable of transmitting/receiving LDR and Medium Data Rate (MDR) voice, data and facsimiles. The Air Force procurement of SMART-T supports Air Force Space Command (AFSPC), Air Intelligence Agency (AIA), Air Mobility Command (AMC), Pacific Air Forces (PACAF) and US Air Force Europe (USAFE) communications requirements. FY97 funds procured 9 Low-Rate Initial Production (LRIP) SMART-Ts; all 9 terminals will

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: MILSATCOM SPACE | |
| <p>support USAFE's non-strategic nuclear forces. FY97 funds also procured associated support engineering and program support. FY98 funds provide for engineering and program support to ensure AF requirements are met prior to full scale production of the Army contract (Army Production Decision schedule Jun 98). FY99 funds will procure 20 additional terminals with associated support engineering and program support out of a total planned procurement of 73.</p> <p>c. SCAMP/GWEN INSTALLATION: The Ground Wave Emergency Network (GWEN) provides minimum essential communications to STRATCOM-assigned units for emergency action message dissemination. Congress directed the GWEN system not be maintained; upgraded Milstar SCAMP terminals will replace that connectivity at the GWEN sites. FY97 funding upgrades and integrates SCAMP terminals at 15 fixed GWEN sites. FY99 funds will upgrade and integrate SCAMP terminals at 26 additional GWEN sites.</p> <p>3. ULTRA HIGH FREQUENCY (UHF) SATELLITE COMMUNICATIONS (SATCOM): Increasing requirements for UHF satellite capacity, coupled with limited channel capacity, led the Joint Staff to mandate new interoperability standards for UHF users that are designed to improve satellite access and efficiency by utilizing Demand Assigned Multiple Access (DAMA) techniques.</p> <p>a. NETWORK CONTROL SYSTEM (NCS): To satisfy a Joint Chief of Staff (JCS) mandate to implement DAMA on 5 Kilohertz (KHZ) and 25 KHZ UHF communications channels, the Air Force procured 4 network controllers to field an initial system capable of controlling five channels of 5 KHZ DAMA and two channels at 25 KHZ DAMA at four sites worldwide. FY97 funding provided terminal enhancements, program support, site integration, and interim contractor support (ICS) for the four network control system sites. FY98/99 funding provides program support for the four network control system sites.</p> <p>b. GROUND TERMINALS: The Air Force is procuring DAMA capable Enhanced Manpack UHF Terminals (EMUT) and installation equipment (e.g., power supplies, vehicle mounts, antennas, power adapters and input/output devices) to support AFSOC, AMC, Air Combat Command (ACC), and other users in response to the JCS mandate to implement DAMA for UHF satellite access. FY97 funding procured 200 EMUTs, associated installation equipment, and program support. FY98 procures 176 Multiband Multimission Radios (MBMMR) for AFSOC and associated program support. FY99 will fund JCS & NSA directed upgrades to fielded terminals resulting from military standard updates and also funds program support.</p> <p>4. SUPER HIGH FREQUENCY (SHF) TERMINALS: SHF terminals, operating over the Defense Satellite Communications System (DSCS) support the command and control requirements of unified and specified Commanders-in-Chief (CINCs) and the connectivity requirements of the National Command Authorities (NCA), US strategic and tactical forces and NATO. The Air Force has responsibility for selected locations which help comprise the ground segment.</p> <p>a. GROUND MOBILE FORCES SATELLITE COMMUNICATIONS (GMFSC): GMFSC provides survivable, jam resistant communications for rapid tactical and crisis/contingency operations. Terminals support the Theater Air Control System, Rapid Deployment Forces, and NCA/JCS directed operations. FY97 funds procured equipment for evaluating DSCS control orderwire systems. FY98/99 funding provides engineering support for this equipment.</p> <p>b. JAM RESISTANT SECURE COMMUNICATIONS (JRSC): The JRSC network is a subnet of the DSCS. It provides jam resistant, secure, nuclear effects protected MILSATCOM connectivity between selected Air Force facilities and elements of the NCA. This equipment has the ability to either stabilize or maximize</p> | | |

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| <p>the data throughput for the critical communications lines. FY97/98/99 funds continue to procure equipment or fund installation efforts supporting the upgrade of the DSCS and JRSC network to include sensor sites and DSCS hub stations. The specific equipment being procured includes: Heavy/medium ground terminal modernization kits, fiber optic modems, patch panels, timing sources, and interfacility links. In addition to procuring systems equipment, FY98/99 funding also provides engineering support.</p> <p>c. SINGLE CHANNEL TRANSPONDER SYSTEM (SCTIS): SCTIS provides Emergency Action Message (EAM) and Force Direction Message (FDM) dissemination capability to selected command centers and force elements for the control of nuclear forces. FY97/98/99 funding provides engineering, and engineering support for 12 SCTIS systems at 9 sites.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: MILSATCOM SPACE |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. MILSTAR AF TERMINALS | | | | | | | 19,283 | | | 2,582 | | | 3,849 |
| A. COMMAND POST TERMINALS | | | | | | | (19,283) | | | (2,582) | | | (3,849) |
| TERMINAL ENHANCEMENTS | A | | | | VAR[1] | N/A[1] | 7,357 | | | | VAR | N/A | 1,700 |
| INSTALLATION SUPPORT | | | | | | | 1,732 | | | | | | 550 |
| FACTORY REPAIR | | | | | | | 1,680 | | | | | | 400 |
| SYSTEM ENGINEERING | | | | | | | 2,125 | | | | | | |
| PROGRAM SUPPORT | | | | | | | 6,389 | | | 2,582 | | | 1,199 |
| 2. MILSTAR TACTICAL TERMINALS | | | | | VAR | N/A | 24,462 | | N/A | 1,446 | VAR | N/A | 16,273 |
| A. SCAMP TERMINALS | | | | | | | (9,673) | | | (1,120) | | | (1,105) |
| EQUIPMENT | A | | | | 99 | 78 | 7,722 | | | | | | |
| SYSTEM ENGINEERING | | | | | | | 26 | | | 823 | | | 455 |
| PROGRAM SUPPORT | | | | | | | 466 | | | 297 | | | 650 |
| INSTALLATION EQUIPMENT (E.G., I/O DEVICES, DTDS, PLGRS) | | | | | VAR | N/A | 1,459 | | | | | | |
| B. SMART-T | | | | | | | (4,832) | | | (326) | | | (14,068) |
| EQUIPMENT | A | | | | 9 | 485 | 4,365 | | | | 20 | 460 | 9,200 |
| SUPPORT ENGINEERING | | | | | | | 100 | | | 30 | | | 4,407 |
| PROGRAM SUPPORT | | | | | | | 367 | | | 296 | | | 461 |
| | | | | | | | | | | | | | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: MILSATCOM SPACE |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| C. SCAMP/GWEN INSTALLATIONS | | | | | | (9,957) | | | | | | (1,100) | |
| INTEGRATION & INSTALLS | | | | | 15 | 577 | 8,655 | | | | | 60 | |
| EQUIPMENT (I/O DEVICES) | | | | | 15 | 40 | 600 | | | | 26 | 40 | 1040 |
| SUPPORT ENGINEERING | | | | | | | 387 | | | | | | |
| PROGRAM SUPPPORT | | | | | | | 315 | | | | | | |
| 3. UHF SATCOM | | | | | VAR | N/A | 10,145 | N/A | N/A | 7,287 | VAR | N/A | 4,520 |
| A. NETWORK CONTROL SYSTEM | | | | | | | (3,952) | | | (210) | | | (288) |
| TERMINAL ENHANCEMENTS | A | | | | VAR | MULT | 600 | | | | | | |
| PROGRAM SUPPORT | | | | | | | 539 | | | 210 | | | 288 |
| SITE INTEGRATION | | | | | | | 386 | | | | | | |
| ICS | | | | | | | 2,427 | | | | | | |
| B. GROUND TERMINALS | | | | | | | (6,193) | | | (7,077) | | | (4,232) |
| EMUTS | A | | | | 200 | 21 | 4,200 | | | | | | |
| EMUT INSTALLATION EQUIPMENT | A | | | | VAR | MULT | 1,036 | | | | | | |
| MBMMR | A | | | | | | | 176 | 29 | 5,104 | | | |
| PROGRAM SUPPORT | | | | | | | 957 | | | 1,973 | | | 567 |
| TERMINAL UPGRADES | | | | | | | | | | | VAR | N/A | 3,665 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: MILSATCOM SPACE |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 4. SHF TERMINALS | | | | | | 4,532 | | | 6,719 | | | 3,591 | |
| A. GMFSC | | | | | VAR | N/A | (1,498) | | (63) | | | (61) | |
| GMFSC EQUIPMENT | A | | | | VAR | N/A | 1,498 | | | | | | |
| ENGINEERING SUPPORT | | | | | | | | | 63 | | | 61 | |
| B. JRSC | | | | | | | (1,862) | | (6,593) | | | (3,469) | |
| JSRC INTERCONNECT | A | | | | VAR | N/A | 1,862 | VAR | N/A | 6,352 | VAR | N/A | 2,962 |
| ENGINEERING SUPPORT | | | | | | | | | 241 | | | 507 | |
| C. SCTIS | | | | | | | (1,172) | | (63) | | | (61) | |
| ENGINEERING SUPPORT | | | | | | | 1,172 | | 63 | | | 61 | |
| TOTAL | | | | | | | 58,422 | | 18,034 | | | 28,233 | |
| 1. Qty and unit cost vary because several different types of equipment or multiple configurations of equipment are being procured. | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|--------|-----------|-----------------|--------------------------------------|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: MILSATCOM SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. MILSTAR AF TERMINALS | | | | | | | | | | |
| A. COMMAND POST TERMINAL ENHANCEMENTS | | | | | | | | | | |
| FY97 | VAR[1] | N/A[1] | AFMC/ESC | OPT/FFP[2] | RAYTHEON MARLBOROUGH, MA ROCKWELL RICHARDSON, TX | [3] | N/A 3 | | | |
| FY99 | VAR[1] | N/A[1] | AFMC/ESC | OPT/FFP[2] | RAYTHEON MARLBOROUGH, MA ROCKWELL RICHARDSON, TX | [3] | N/A 3 | YES | | |
| 2. MILSTAR TACTICAL TERMINALS | | | | | | | | | | |
| A. SCAMP TERMINALS | | | | | | | | | | |
| FY97 | 99 | 78 | AFMC/ESC | OPT/FFP/ MIPR [4] | ARMY/ROCKWELL RICHARDSON, TX | FEB 97 | FEB 99 | | | |
| B. SMART-T | | | | | | | | | | |
| FY97 | 9 | 485 | AFMC/ESC | OPT/FFP/ MIPR [4] | ARMY/RATHEON MARLBORO,MA | FEB 97 | AUG 99 | | | |
| FY99 | 20 | 460 | AFMC/ESC | OPT/FFP/ MIPR [4] | ARMY/RATHEON MARLBORO,MA | FEB 99 | MAY 00 | YES | | |
| C. SCAMP/GWEN INSTALLATIONS | | | | | | | | | | |
| FY97 INSTALLATIONS | 15 | 577 | AFMC/ESC | OPT/FFP/ MIPR [4] | ARMY/ROCKWELL RICHARDSON, TX | FEB 98 | JUN 99 | YES | | |
| FY97 I/O DEVICES | 15 | 40 | AFMC/ESC | C/IDIQ/FFP | UNKNOWN | MAR 98 | JUN 99 | YES | | |
| FY99 I/O DEVICES | 26 | 40 | AFMC/ESC | C/IDIQ/FFP | UNKNOWN | DEC 98 | JUN 00 | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|--------|-----------|-----------------|--------------------------------------|-------------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: MILSATCOM SPACE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 3. UHF SATCOM | | | | | | | | | | |
| A. NCS (NA - NO HARDWARE) | | | | | | | | | | |
| | | | | | | | | | | |
| B. GROUND TERMINALS | | | | | | | | | | |
| EMUTS FY97 | 200 | 21 | AFMC/ESC | OPT/FFP/ MIPR[5] | ARMY/HUGHES FT WAYNE, IN | FEB 97 | JAN 00 | | | |
| MBMMR FY98 | 176 | 29 | AFMC/ESC | SS FFP/ MIPR[5] | ARMY/HARRIS ROCHESTER, NY | FEB 98 | FEB 99 | YES | | |
| TERM ENHANCEMENTS FY99 | VAR | N/A | AFMC/ESC | OPT/FFP/ MIPR[5] | ARMY/HUGHES FT WAYNE, IN | NOV 98 | JAN 99 | NO | JUL 98 | |
| | | | | | | | | | | |
| 4. SHF TERMINALS | | | | | | | | | | |
| | | | | | | | | | | |
| A. GMFSC EQUIPMENT FY97 | VAR[4] | N/A[1] | AFMC/ESC | OPT/FFP[6] | ARMY/MULTIPLE[6] | DEC 96 | VAR 3 | | | |
| | | | | | | | | | | |
| B. JRSC INTERCONNECT | | | | | | | | | | |
| FY97 | VAR[4] | N/A[1] | AFMC/ESC | FFP/OPT/ MIPR[6] | ARMY/ORTEL CORP ALAHAMBRA, CA[6] | JUN 97 | VAR 3 | | | |
| FY98 | VAR[4] | N/A[1] | AFMC/ESC | C/FFP/ MIPR | UNKNOWN | MAY 98 | VAR 3 | YES | | |
| FY99 | VAR[4] | N/A[1] | AFMC/ESC | C/FFP/MIPR | UNKNOWN | VAR 5 | VAR 3 | YES | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| REMARKS: | | | | | | | | | | |
| 1. QUANTITIES AND UNIT COSTS VARY BECAUSE SEVERAL DIFFERENT TYPES OF EQUIPMENT OR MULTIPLE TYPES OF EQUIPMENT ARE BEING PROCURED. | | | | | | | | | | |
| 2. OPTION TO BASIC COMMAND POST TERMINAL CONTRACT AWARDED MAY 93. | | | | | | | | | | |
| 3. MULTIPLE AWARD AND DELIVERY DATES FOR OPTIONS AWARDED TO EXISTING CONTRACTS. | | | | | | | | | | |
| 4. AIR FORCE PROCUREMENT ON ARMY CONTRACT(S) AWARDED FEB 96. | | | | | | | | | | |
| 5. AIR FORCE PROCUREMENT ON ARMY CONTRACT(S) AWARDED APR 94. | | | | | | | | | | |
| 6. OPTION TO ARMY CONTRACTS: GSA, KANSAS CITY, MO AND HARRIS, MELBOURNE, FL (AWARDED AUG 96). | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: SPACE MODIFICATIONS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$24,796 | \$20,009 | \$7,917 | \$1,277 | \$4,426 | \$4,523 | \$4,574 |
| DESCRIPTION: | | | | | | | | |
| 1. The AIR FORCE SATELLITE CONTROL NETWORK (AFSCN) OPERATIONS mission is to provide telemetry, tracking and commanding, mission data dissemination, and data processing support for operational and research, development, test and evaluation (RDT&E) systems for the DoD and other high priority users. The AFSCN consists of dedicated systems, a Common User Element (CUE), and supporting resources from external agencies. The dedicated systems include Defense Meteorological Satellite Program (DMSP), Global Positioning System (GPS), and Military Satellite Communications (MILSATCOM). The CUE consists of two control nodes and a worldwide network of remote ground facilities. The supporting resources include the AFSCN communications system, National Aeronautics and Space Administration interface equipment, and user resources at various command and control centers. | | | | | | | | |
| MOD# | DESCRIPTION | | | PY | FY97 | FY98 | FY99 | |
| S408930 | HTS MICROWAVE REPLACEMENT | | | | 716 | | | |
| | TOTAL | | | | 716 | | | |
| 2. The DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP) joint service mission is to provide an enduring and survivable capability through all levels of conflict consistent with the survivability of the supported forces. To collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic and solar-geophysical data to support worldwide DoD operations and high priority programs. Timely, high quality data is supplied to the Air Force Weather Agency, the Fleet Numerical Oceanography Center and to deployed fixed and mobile ground and ship based tactical data receipt and processing terminals worldwide. The three major components in the DMSP system are the space segment, command, control and communications (C3) segment, and the users segment. | | | | | | | | |
| MOD# | DESCRIPTION | | | PY | FY97 | FY98 | FY99 | |
| T7191 | DATA INGEST PROCESSING (DIPS) | | | | 2,800 | | 200 | |
| MISC | MISCELLANEOUS LOW COST MODS | | | | 640 | | 90 | |
| | TOTAL | | | | 3,440 | | 290 | |
| 3. The GLOBAL POSITIONING SYSTEM (GPS) is a space-based radio navigation, time distribution, and nuclear detonation (NUDET) detection system (NDS). The GPS mission is to provide highly accurate positioning, velocity, timing, and NUDET information to properly equipped air, land, sea, and space-based users. | | | | | | | | |
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a. The GPS system contains four elements: the Space Segment (SS), the Operational Control Segment (OCS), the Navigation User Segment (NUS), and the NUDET Detection Segment (NDS). The OCS consists of a number of monitor stations (MSs) and ground antennas (GAs) located around the world, and one pre-launch compatibility station (PCS). The monitor stations use a GPS receiver to passively track all satellites in view and thus accumulate ranging data from the satellite signals. The information from the monitor stations is then processed at the Master Control Station (MCS) and is used to update the navigation message for each satellite. This updated information is transmitted to the space vehicles (SVs) via the ground antennas using an S-Band data signal. The ground antennas are also used for transmitting and receiving satellite telemetry and control information. The PCS is used to perform pre-launch testing on GPS satellites.

b. The GPS NDS consists of user equipment (UE) sets, test instrumentation, and peculiar support equipment (PSE). The UE set, utilizing the data transmitted by the satellites, will derive navigation and time information for use in deriving location and precise time of nuclear detonations detected by the on-board satellite sensor.

| MOD # | DESCRIPTION | PY | FY97 | FY98 | FY99 |
|---------|--------------------------------------|---------------|---------------|--------------|--------------|
| 30724B | STATION COMPUTER SYSTEM REPLACEMENT | 10,801 | 9,483 | 3,797 | |
| S605133 | WEAPON SUPPORT SYSTEM | | | 1,500 | 1,200 |
| T7215 | MS TIMING SUBSYSTEM ENHANCEMENT | | | | 1,300 |
| 30726 | TELEMETRY/PRN RANGING UPGRADE | | 926 | 3,322 | 2,600 |
| T7199 | HIGH POWER AMPLIFIER REPLACEMENT | | | | 1,418 |
| MISC | MISCELLANEOUS LOW COST MODIFICATIONS | 100 | 200 | | 80 |
| | TOTAL | 10,901 | 10,609 | 8,619 | 6,598 |

4. The 496L SPACETRACK NETWORK is comprised of the AN/FSQ-114 (Ground-based Electro-Optical Deep Space Surveillance System (GEODSS)) Optical Sensor System, the AN/FPS-85 Phased Array Radar (Eglin), the AN/FPS-117 and AN/FPS-79 Mechanical Detection and Tracking Radars (Pirinlik, Turkey). The SPACETRACK systems provide data on near-earth and deep space objects to constantly update the Cheyenne Mountain complex satellite catalog which performs early warning and tracking of potential threats to North America, and assessment and characterization of potential atmospheric, ballistic missile and space attacks.

a. AN/FPS-85 EGLIN Radar. The AN/FPS-85 radar, located at Eglin AFB, FL is a computer controlled, phased-array radar that was deployed in 1967 for detection and tracking of space objects. Within its coverage area, this radar is tasked to provide data on known and unknown space objects to the Space Control Center (SCC) at the Cheyenne Mountain Complex (CMC) at Colorado Springs, CO and the alternate SCC at Dahlgren, VA.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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|---|---|

b. AN/FSQ-114 GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM. GEODSS is a segment of the SPACETRACK Network which provides metric track data, deep-space Space Object Identification (SOI), and visible light photometry data to the CMC. More specifically, the primary mission of GEODSS is to provide the Space Surveillance Center (SSC) with observational (metric) data on deep-space satellites and optical characteristics information as tasked by the Combined Space Intelligence Center. GEODSS also supports command mission responsibilities for cataloging and maintenance of deep-space satellite payloads and debris, New Foreign Launch (NFL) orbit determination and mission assessment, as well as collision avoidance taskings.

| MOD # | DESCRIPTION | PY | FY97 | FY98 | FY99 |
|--------|----------------------------------|---------------|--------------|--------------|------------|
| 19303B | EGLIN TRANSMITTER MODULE UPGRADE | 20,601 | 300 | 5,870 | 720 |
| 39709B | GEODSS | 24,948 | 3,600 | | |
| 39710B | AN/FPS-85 COHERENT RX SYS MOD | 3,491 | 4,200 | 100 | |
| MISC | MISCELLANEOUS LOW COST MODS | 25 | 1,481 | 150 | |
| | TOTAL | 49,065 | 9,581 | 6,120 | 720 |

5. DEFENSE SUPPORT PROGRAM (DSP) system provides a space-based surveillance system to detect and report missile and space launches and nuclear detonations in near real time during pre- trans- and post-attack periods. The DSP system consists of a constellation of satellites in geostationary orbits, fixed and mobile ground processing stations, one multi-purpose facility, and a ground communications network (GCN). DSP's primary mission is to provide tactical warning and limited attack assessment of a ballistic missile attack. DSP also detects and reports nuclear detonation events and provides information for theater warning and exploitation. Modifications in this program apply only to the ground stations.

| MOD# | DESCRIPTION | PY | FY97 | FY98 | FY99 |
|-------|--------------------------------------|--------------|------------|------|------------|
| T7155 | MGT/JRSCT FIBER OPTIC INTERFACE | 900 | 120 | | |
| T7159 | AN/MSQ-118 & 120 TRACTOR REPLACEMENT | 1,576 | 330 | | |
| MISC | MISCELLANEOUS LOW COST MODS | 74 | | | 114 |
| | TOTAL | 2,550 | 450 | | 114 |

6. The 474N Sea Launched Ballistic Missile (SLBM) Detection and Warning System, consists of the AN/FPQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS) and the AN/FPS-123 PAVE PAWS System. The primary mission is to provide the CMC with credible Tactical Warning/Attack Assessment (TW/AA) data on all SLBMs penetrating the coverage area. This data includes an estimation of launch and impact locations and times. The secondary mission is to provide the CMC and other users with TW/AA data on Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. Additionally, Pave Paws and PARCS support the Space Surveillance Network by providing space vehicle surveillance, tracking and identification as

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| | P-1 ITEM: 68 | | PAGE NO: 158 | |
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|---|---|-------------------------------|------|-------|------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 | | | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: SPACE MODIFICATIONS | | | | |
| <p>required by the Space Surveillance Center and the Joint Space Intelligence Center. The sensors have an operational availability requirement of 98 percent.</p> <p>a. AN/FPS-123 PAVE PAWS, is a ground-based phased array radar system consisting of four dual-faced, solid state phased array surveillance and tracking radar systems. The first two sensors were completed at Cape Cod AS, MA (Site I) and Beale AFB, CA (Site II) in the 1970s. PAVE PAWS was expanded in the late 1980s to include sensors at Robins AFB, GA (Site III) and El Dorado AS, TX (Site IV). The primary mission of PAVE PAWS is to furnish detection and attack assessment of SLBMs and ICBMs penetrating their coverage area. A secondary mission is supporting the US Space Command (USSPACECOM) Space Surveillance Network (SSN). The AN/FPS-123 supplies space surveillance, tracking and Space Object Identification (SOI) data.</p> <p>b. AN/FPQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS). The AN/FPQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system at Cavalier AFB, ND. PARCS is a single faced, long range phased array radar. PARCS' primary mission is to provide tactical warning and assessment of SLBM and ICBM attack against North America. PARCS is a one-of-a-kind system originally developed in the early 1970s and has operated continuously without significant upgrade since 1974.</p> | | | | | |
| MOD # | DESCRIPTION | PY | FY97 | FY98 | FY99 |
| P7258 | DISPERSIVE DELAY LINES | | | 1,764 | 95 |
| P7260 | DATA TRANS CONTROLLER | | | 3,402 | 100 |
| MISC | MISCELLANEOUS LOW COST MODS | 75 | | 104 | |
| | TOTAL | 75 | | 5,270 | 195 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Data Ingest Processing and Storage (DIPS) T7191 **Models of Systems Affected:** Space - Defense Meteorological Satellite Program (DMSP)

Description/Justification: The 55th Space and Weather Squadron (55 SWX) requires DMSP 5D-3 sensor data that is less than 120 minutes old in order to support its extensive list of priority customers (AFSPC, USSPACECOM, NORAD, AFC4A, ACC, AMC, NASA and others). Under the current configuration the data received by AFSPC is up to 146 minutes old. The upgrade will provide the necessary equipment to the 55 SWX facility at Falcon AFB, CO to enable the receipt, processing and storage of DMSP 5D-3 sensor data in less than 120 minutes. FY 97 funding will procure the hardware, software and documentation necessary for implementation. FY99 funding will be used for the upgrade installation. Without this upgrade up to 26% of the satellite data will be unusable because of its late availability. The Earth's polar Aurora and near earth space environment change at a rapid pace forcing this requirement.

Development Status/Major Development Milestones: CCB Jun 97, PDR Dec 97, CDR Mar 98, FCA/PCA Sep 98

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | 1 | 1.1 | | | | | | | | | 1 | 1.1 |
| Equipment Kits Non-recurring | | | | 0.3 | | | | | | | | | 0 | 0.3 |
| Engineering Change Orders | | | | 0.3 | | | | | | | | | 0 | 0.3 |
| Data | | | | 0.4 | | | | | | | | | 0 | 0.4 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | 0.1 | | | | | | | | | 0 | 0.1 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | 0.6 | | | | | | | | | 0 | 0.6 |
| Total Procurement Costs: | 0 | 0.0 | 1 | 2.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 2.8 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (1 Kits) | | | | | | | | 1 | 0.2 | | | | 1 | 0.2 |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.2 | 0 | 0.0 | 0 | 0.0 | 1 | 0.2 |
| Total Modification Costs: | 0 | 0.0 | 1 | 2.8 | 0 | 0.0 | 0 | 0.2 | 0 | 0.0 | 0 | 0.0 | 1 | 3.0 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|------|-----|----------------|-----|------|-----|--|-----|--------|-----|----------------|--|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 10 Month(s) | | | | | Production Lead-time: 11 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | FY97 | | AUG 97 | | FY98 | | FY99 | | OCT 98 | | FY00 | | FY01 | | | | | | |
| Delivery Date: | | FY96 | | FY97 | | JUL 98 | | FY98 | | FY99 | | JAN 99 | | FY00 | | FY01 | | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | 1 | | | | | | | | | | | | 1 |
| Output | | | | | | | | | | | 1 | | | | | | | | | | | 1 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Weapon Support System (WSS), S605133 **Models of Systems Affected:** NAVSTAR Global Positioning System (GPS)

Description/Justification: This modification upgrades the Weapon Support System (WSS) environment to be compatible with the new Control Segment architecture. This modification is required to maintain the existing WSS mission as the support environment for the Operational Control Segment (OCS) and includes support for the GPS High Fidelity System Simulator. This upgrade integrates the new architecture capabilities with the existing legacy systems capabilities in FY98 and provides for disposal of obsolete systems at the end of FY99. This effort will also connect Peterson AFB, CO support system with Falcon AFB, CO in a unified approach. The effort is phased concurrent with the GPS High Fidelity Simulator effort to provide initial capability in FY98 and full capability in FY99.

Development Status/Major Development Milestones: AFSPC Configuration Control Board (CCB) - Mar 96, Simulator Support NLT Jul 98, Maintenance Support NLT Jul 99.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 1 | 0.6 | | | | | 1 | 0.6 |
| Equipment Kits Non-recurring | | | | | 1 | 0.6 | | | | | | | 1 | 0.6 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | 0.2 | | | | | | | 0 | 0.2 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | 0.1 | | 0.1 | | | | | 0 | 0.2 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | 0.5 | | 0.4 | | | | | 0 | 0.9 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 1.4 | 1 | 1.1 | 0 | 0.0 | 0 | 0.0 | 2 | 2.5 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | 1 | 0.1 | | | | | | | 1 | 0.1 |
| (FY99 Eqpt (1 Kits) | | | | | | | | 1 | 0.1 | | | | 1 | 0.1 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 2 | 0.2 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 1.5 | 1 | 1.2 | 0 | 0.0 | 0 | 0.0 | 2 | 2.7 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 3 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | JAN 98 | | FY99 | | JAN 99 | | FY00 | | FY01 | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | APR 98 | | FY99 | | APR 99 | | FY00 | | FY01 | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | 1 | | | | 1 | | | | | | | | | | | 2 |
| Output | | | | | | | | 1 | | | | 1 | | | | | | | | | | 2 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Monitor Station Timing Subsystem Enhancement (MSTSE), T7215 **Models of Systems Affected:** NAVSTAR Global Positioning System (GPS)

Description/Justification: The Monitor Station Timing Subsystem Enhancement (MSTSE) replaces the existing unsupported HP5061 Cesium frequency standards with HP5071 Cesium frequency standards. The new frequency standards are more stable and less sensitive to environmental changes. This upgrade will provide increased accuracy through more accurate frequency and timing measurements provided to the Kalman Filter. Without this modification, the existing frequency standards will be susceptible to continuing failure and drift associated with changing environmental conditions. The GPS navigation signal provided to world-wide civilian and military users will degrade resulting in potential loss of life and/or operational equipment. FY99 funds procure the initial kit and required software changes at the Master Control Station; FY00 funds procure 4 kits and installation at all five sites.

Development Status/Major Development Milestones: Estimated milestones: Preliminary/Critical Design Review(PDR/CDR) - Apr 99; Initial Operational Capability (IOC) - Jan 00; Full Operational Capability (FOC) - Sep 00.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 1 | 0.2 | 4 | 0.6 | | | 5 | 0.8 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | 0.2 | | 0.5 | | | 0 | 0.7 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | 0.1 | | 0.1 | | | 0 | 0.2 |
| Software | | | | | | | | 0.8 | | 0.3 | | | 0 | 1.1 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.3 | 4 | 1.5 | 0 | 0.0 | 5 | 2.8 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99 Eqpt (1 Kits) | | | | | | | | | 1 | 0.1 | | | 1 | 0.1 |
| (FY00 Eqpt (4 Kits) | | | | | | | | | 4 | 0.4 | | | 4 | 0.4 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 5 | 0.5 | 0 | 0.0 | 5 | 0.5 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.3 | 4 | 2.0 | 0 | 0.0 | 5 | 3.3 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|------|-----|--------|----------------|---|-----|--------|----------------|------|-----|-----|--------------|--|--|---|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 9 Month(s) | | | | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | JAN 99 | | FY00 | | OCT 99 | | FY01 | | | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | OCT 99 | | FY00 | | JUL 00 | | FY01 | | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total | | | |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | | | | |
| Input | | | | | | | | | | | | | | 1 | | | | 4 | | | | | | | 5 |
| Output | | | | | | | | | | | | | | 1 | | | | 4 | | | | | | | 5 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Telemetry/Pseudo-Random Noise (PRN) Ranging Upgrade, 30726 **Models of Systems Affected:** NAVSTAR Global Positioning System (GPS)

Description/Justification: Original upgrade to replace existing unsupportable, high failure echo and telemetry receivers put on hold to incorporate PRN ranging requirements. After Engineering Change Order (ECO) prepared, a newly implemented spacecraft payload (Burst Detector Augmentation) required rework of the ECO and selection of new receiver hardware and associated components. Without this upgrade, the existing receivers will continue to fail excessively, preventing the Control Segment from receiving command verification and telemetry from the GPS satellites, resulting in potential loss of multi-million dollar satellites. Prior year funds procured test lab equipment and software; FY97 funds procured data and software; FY98 funds procure the first kit, logistics data, and software integration; FY99 funds procure and install kits at the three remaining sites as well as install the first kit.

Development Status/Major Development Milestones: Critical Design Review (CDR) - Apr 98; Component Integration Test (CIT) - Sep 98 thru Dec98; First Article Testing (FAT) - Jul 99 thru Sep 99; Initial Operational Capability (IOC) - Oct 99; Full Operational Capability (FOC) - Feb 00.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 3 | 1.1 | | | | | 3 | 1.1 |
| Equipment Kits Non-recurring | | | | | 1 | 1.2 | | | | | | | 1 | 1.2 |
| Engineering Change Orders | | | | 0.2 | | | | | | | | | 0 | 0.2 |
| Data | | | | 0.4 | | 0.4 | | 0.3 | | | | | 0 | 1.1 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | 0.3 | | 1.7 | | | | | | | 0 | 2.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.9 | 1 | 3.3 | 3 | 1.4 | 0 | 0.0 | 0 | 0.0 | 4 | 5.6 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | 1 | 0.3 | | | | 1 | 0.3 |
| (FY99 Eqpt (3 Kits) | | | | | | | | 3 | 0.9 | | | | 3 | 0.9 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 1.2 | 0 | 0.0 | 0 | 0.0 | 4 | 1.2 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.9 | 1 | 3.3 | 3 | 2.6 | 0 | 0.0 | 0 | 0.0 | 4 | 6.8 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|--|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 12 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | JAN 98 | | FY99 | | JAN 99 | | FY00 | | FY01 | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | JAN 99 | | FY99 | | JAN 00 | | FY00 | | FY01 | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | | | | | 2 | 2 | | | | | | | 4 |
| Output | | | | | | | | | | | | | | 2 | 2 | | | | | | | 4 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: High Power Amplifier Replacement (HPA), T7199 **Models of Systems Affected:** NAVSTAR Global Positioning System (GPS)

Description/Justification: The GPS remote site Ground Antennas (GAs) use a Klystron Tube amplifier to prepare the upload signal for transmission to the GPS Satellites. These Klystrons are becoming increasingly unsupportable with a current Mean-Time-Between-Failure (MTBF) of 589 hours. This modification will replace the existing Klystrons and increase the MTBF to approximately 8000 hours. If not funded, downtime will continue to increase, resulting in inability to upload navigation data and control commands to the GPS satellite constellation. Navigation data transmitted to worldwide civilian and military users will become inaccurate, resulting in potential loss of life and/or equipment, including multi-million dollar satellites. FY99 funds procure and install four kits.

Development Status/Major Development Milestones: Design Review - Apr 99; Initial Operational Capability - Sep 99; Full Operational Capability - Dec 99.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 4 | 0.8 | | | | | 4 | 0.8 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | 0.2 | | | | | 0 | 0.2 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | 0.0 | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 1.0 | 0 | 0.0 | 0 | 0.0 | 4 | 1.0 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | 4 | 0.4 | | | | 4 | 0.4 |
| (FY99 Eqpt (4 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 0.4 | 0 | 0.0 | 0 | 0.0 | 4 | 0.4 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 1.4 | 0 | 0.0 | 0 | 0.0 | 4 | 1.4 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|------|-----|--------|----------------|---|-----|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 2 Month(s) | | | | | Production Lead-time: 6 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | DEC 98 | | FY00 | | | FY01 | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | JUN 99 | | FY00 | | | FY01 | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | 2 | 2 | | | | | | | | | | | 4 |
| Output | | | | | | | | | | 2 | 2 | | | | | | | | | | | 4 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Eglin Transmitter Module Upgrade 19303B **Models of Systems Affected:** SPACETRACK, AN/FPS-85

Description/Justification: The transmitter upgrade replaces the unsupportable 1960's vintage vacuum tube components within the transmitters with commercially available and supportable components. Failure to complete this effort will prevent the site from operating because of diminishing sources for critical components within the transmitters. The Eglin AFB, FL mission is vital to AFSPC as it presently is responsible for updating information on the majority of Space Objects Catalog (SOC) items by providing current track information on known objects and detecting unknown objects within its coverage area of surveillance. Without the Eglin updates, the SOC will become inaccurate, preventing proper mission planning for all space launches because collision avoidance cannot be properly calculated.

Development Status/Major Development Milestones: Milestone IV, CCB: Oct 95, 1st Article Test: Jun 96, Field Test: Sep 98, FOC MAR 00

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | 11 | 16.5 | | | 5 | 5.2 | | | | | | | 16 | 21.7 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | 0.3 | | | | | | | | | | | 0 | 0.3 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | 0.2 | | | | | | | | | | | 0 | 0.2 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | 3.5 | | | | 0.0 | | | | | | | 0 | 3.5 |
| Total Procurement Costs: | 11 | 20.5 | 0 | 0.0 | 5 | 5.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 16 | 25.7 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (11 Kits) | 1 | 0.1 | 2 | 0.3 | 8 | 0.7 | | | | | | | 11 | 1.1 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (5 Kits) | | | | | | | | 5 | 0.7 | | | | 5 | 0.7 |
| (FY99 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 1 | 0.1 | 2 | 0.3 | 8 | 0.7 | 5 | 0.7 | 0 | 0.0 | 0 | 0.0 | 16 | 1.8 |
| Total Modification Costs: | 11 | 20.6 | 0 | 0.3 | 5 | 5.9 | 0 | 0.7 | 0 | 0.0 | 0 | 0.0 | 16 | 27.5 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|--------|-----|------|----------------|-----|------|--------|---|------|--------|-----|----------------|--|-----|------|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 6 Month(s) | | | | | Production Lead-time: 14 Month(s) | | | | | | | |
| Contract Date: | | FY96 | MAR 96 | | FY97 | JAN 98 | | FY98 | JAN 98 | | FY99 | OCT 98 | | FY00 | | | FY01 | | | | | |
| Delivery Date: | | FY96 | FEB 98 | | FY97 | FEB 99 | | FY98 | FEB 99 | | FY99 | JAN 99 | | FY00 | | | FY01 | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | 1 | | | | | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | 16 |
| Output | 1 | | | | | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | 16 |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Perimeter Acquisition Radar Attack Characterization System (PARCS) **Models of Systems Affected:** SLBM, PARCS, AN/FPQ-16
 PARCS Dispersive Delay Line (DDL) P-7258

Description/Justification: The PARCS Dispersive Delay Line (DDL) modification will replace signal processing elements in the PARCS radar, which are no longer supportable with modern devices that are stable, reliable, and supportable. The DDLs are essential to radar operation and only one serviceable spare is available. Attempts at DDL repair has not yielded long term success. When a DDL of the current design is replaced, the radar signal processor must be realigned, a process that requires 12 or more hours to complete. PARCS provides major contributions to the Integrated Tactical Warning and Attack Assessment (ITW/AA) mission. Failure of a DDL would result in a long period of time when the radar would be unable to detect and track threats to the North American continent in support of USSPACECOM/NORAD CINC. Other includes engineering for development, testing and integration.

Development Status/Major Development Milestones: CCB: Nov 98, Contract Awd: Sep 98, PDR/CDR: Feb 99, Install: Jul 99, OT&E: Aug 99, IOC: Sep 99

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 0.4 | | | | | | | 1 | 0.4 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | 0.2 | | | | | | | 0 | 0.2 |
| Data | | | | | | 0.2 | | | | | | | 0 | 0.2 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 1.0 | | | | | | | 0 | 1.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 1.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.8 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (1 Kits) | | | | | | | | 1 | 0.1 | | | | 1 | 0.1 |
| (FY99 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 1.8 | 0 | 0.1 | 0 | 0.0 | 0 | 0.0 | 1 | 1.9 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|--|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 4 Month(s) | | | | | Production Lead-time: 16 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | SEP 98 | | FY99 | | OCT 98 | | FY00 | | FY01 | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | JUL 99 | | FY99 | | JUL 99 | | FY00 | | FY01 | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | | | | | 1 | | | | | | | | 1 |
| Output | | | | | | | | | | | | | | 1 | | | | | | | | 1 |

UNCLASSIFIED

INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A)

DATE:
FEBRUARY 1998

Modification Title and No: Perimeter Acquisition Radar Attack Characterization System (PARCS) Data Transmission Controller (DTC) Upgrade P-7260
Models of Systems Affected: SLBM, PARCS, AN/FPQ-16

Description/Justification: The PARCS Data Transmission Controller Upgrade is a Reliability and Maintainability effort to replace obsolete and unsupportable equipment in the communications link with the main mission computer and external users. The DTC controls all communications of Missile Warning message traffic to Cheyenne Mountain and Spacetrack message traffic to Dahlgren and Cheyenne Mountain Complex (CMC). PARCS provides major contributions to the Integrated Tactical Warning and Attack Assessment (ITW/AA) mission. Failure to implement this modification would endanger the site's ability to acknowledge threats to the North American continent in support of USSPACECOM/NORAD CINC and to notify the National Command Authorities for appropriate tactical warning/attack assessment and response. Other includes engineering for development, testing and integration.

Development Status/Major Development Milestones: Milestone IV, CCB: SEP 98, Task AWD: Oct 98, SSR: Jan 99, PDR: Apr 99, CDR: Jun 99, Install: Apr 00. FAT: Jun-July 00, OT&E: Aug 00, IOC: Dec 00

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 0.8 | | | | | | | 1 | 0.8 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | 0.2 | | | | | | | 0 | 0.2 |
| Data | | | | | | 0.7 | | | | | | | 0 | 0.7 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | 0.4 | | | | | | | 0 | 0.4 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 1.3 | | | | | | | 0 | 1.3 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 3.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 3.4 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (1 Kits) | | | | | | | | 1 | 0.1 | | | | 1 | 0.1 |
| (FY99 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 3.4 | 0 | 0.1 | 0 | 0.0 | 0 | 0.0 | 1 | 3.5 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|--------|-----|------|----------------|--|-----|------|----------------|------|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 5 Month(s) | | | | | Production Lead-time: 18 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | OCT 98 | | FY99 | | JAN 99 | | FY00 | | FY01 | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | APR 00 | | FY99 | | APR 00 | | FY00 | | FY01 | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| Output | | | | | | | | | | | | | | | | 1 | | | | | | 1 |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT |
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| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|--|--|----------|----------|----------|----------|----------|----------|-----------|
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$62,471 | \$32,685 | \$31,064 | \$30,724 | \$86,551 | \$89,917 | \$139,685 |

DESCRIPTION:
 The Tactical Communications-Electronics (C-E) Equipment procurement line acquires essential command, control, communications and computer (C4) systems to satisfy requirements for Pacific Air Forces (PACAF), United States Air Forces Europe (USAFE), Air Mobility Command (AMC), Air Force Special Operations Command (AFSOC), Air Combat Command (ACC), and the Air National Guard (ANG). These funds also replace or upgrade logistically unsupportable communications systems fielded in our Theater Air Control System (TACS) and combat communications units, and procure the next generation of lightweight tactical communications equipment that will support US flying operations worldwide.

1. PACER SPEAK (AN/GRC-206) VERSION 5 (V5) UPGRADE: The PACER SPEAK is an equipment upgrade program designed around a common transmitter and receiver (RT-1319). The PACER SPEAK is a pallet of radios mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV) which is used primarily by the ACC Theater Air Control Parties (TACPs) and AFSOC Special Tactics Teams (STTs). Both types of units deploy with the Army's maneuver units and provide the command and control link for Close Air Support (CAS), airlift, and reconnaissance. The current PACER SPEAK system configuration operates in several frequency bands including; High Frequency (HF), Very High Frequency/ Amplitude Modulation (VHF/AM), and Ultra High Frequency/Amplitude Modulation (UHF/AM) utilizing the HAVE QUICK Waveform. The V(5) upgrade to PACER SPEAK started in FY94, with a current projected requirement for 865 systems. The V(5) upgrade replaces the single channel VHF radio with the VHF antijam frequency hopping radio currently used by Army maneuver units, thus assuring critical Air Force interoperability with these units, and reducing the probability of fratricide. FY97/98/99 funds procure 130, 40, and 44 units respectively.

2. THEATER DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM: The TDC program provides telephone/computer networks, and message service to deploying Air Force and joint units. It was started in FY92 to replace the existing Tri-service Tactical Communications (TRI-TAC) system. TRI-TAC showed its age during Desert Storm (as documented in the "Hot Wash" reports), lacking sufficient bandwidth to support current communications technology such as Local Area Networks (LANs), video teleconferencing and timely transmission of the Air Tasking Order (ATO) and intelligence imagery. In addition, TRI-TAC consumes a large amount of critical airlift resources due to its size and packaging. TDC corrects these deficiencies providing a large increase in throughput capacity and better bandwidth efficiency, as well as a 20-35% reduction in airlift requirements. TDC will procure current technology, Commercial-Off-the-Shelf (COTS) equipment. As such, it is fully compliant with existing and emerging commercial interoperability standards in accordance with Office of Secretary of Defense (OSD) interoperability guidelines.

TDC will support a wide range of mission areas and users including: Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), Air Force Special Operation Command (AFSOC), Air National Guard (ANG), and the Air Force Reserves (AFR). For both AMC and AFSOC, TDC provides new combat capability not previously available. TDC is required to support the Air Expeditionary Force. In addition, TDC is capable of supporting joint operations through its link into the joint tactical communications architecture. TDC is also critical to the successful implementation of the Global Broadcast Service (GBS) to disseminate timely intelligence information to the warfighter--TDC computer servers will be used to support most GBS

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| | P-1 ITEM: 69 | | PAGE NO: 168 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT | |
| <p>ground terminals. TDC is composed of two components, the Lightweight Multiband Satellite Terminal (LMST) and the Integrated Communications Access Packages (ICAP). Together these two systems provide the communications infrastructure in deployed base environments. TDC connects all users, both at the base level and back to the national command authorities using various C4 and intelligence (C4I) applications and the Tactical Internet. TDC will equip Wing Initial Communication Packages (WICPs), Air Operations Centers (AOC), Air Support Operations Centers (ASOCs) and Control Reporting Centers/Elements (CRCs/CREs). TDC is modular, and tailorable--capable of supporting the war effort from day one to the buildup of a sustaining base.</p> <p>TDC is currently funded at 76% of requirement, which will support 100% of one Major Theater War (MTW) and 30% of another.</p> <p>a. LIGHTWEIGHT MULTIBAND AND SATELLITE TERMINALS (LMSTs): LMSTs will augment the existing X-Band tactical satellite terminals. LMSTs provide a significant increase in capability, capable of leveraging not only the military X-band satellite channels, but also the C- and Ku-bands available on commercial communications satellites. This alleviates many operational problems, since the military X-band channels are nearing capacity. LMSTs are a critical link providing the two-way communications connectivity between the deployed base and command authorities at other locations. The LMST significantly reduces airlift, requiring just 25% of a C-130 load versus a full C-130 load to move the terminal it replaces. The LMST total inventory objective changed from 79 to 85 systems to reflect the recently approved USAF priority list for TDC. FY97/98/99 funds procure 6, 3, and 3 units respectively.</p> <p>b. INTEGRATED COMMUNICATIONS ACCESS PACKAGES (ICAPs): ICAP provides modular and scaleable packages of routers, switches, multiplexers and network management systems, forming the communications backbone for a deployed base. Users will plug-in their computer, telephones, and faxes into the backbone the ICAP supplies. ICAP provides significant advantages over TRI-TAC in the areas of bandwidth efficiency, adaptability, and airlift:</p> <ul style="list-style-type: none">- ICAP employs "smart multiplexers" allowing sequencing of several messages over a single line, versus the multiple dedicated lines used in TRI-TAC.- ICAP packages come in ten configuration sizes, allowing greater flexibility to meet different contingency operations. For example, the WICP is the smallest sized unit (1 C-130 load) designed to provide an immediate communications capability during the initial phase of deployment. As subsequent airlift becomes available, additional packages can be "added," building up to a full size AOC package. The TRI-TAC system lacks this flexibility, requiring a large portion of the system (6-7 C-130 loads) to be in place before the system becomes operational. The ICAP total inventory objective changed from 139 to 142 systems to reflect the recently approved USAF priority list for TDC. FY97/98/99 funds procure 13, 4, and 4 units respectively. | | |

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| | P-1 ITEM: 69 | | PAGE NO: 169 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT |
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| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|----------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. PACER SPEAK | | | | | | | | | | | | | |
| A. SINGARS/ANDVT (V5) UPGRADE | A | | | | 130 | 61.6 | 8,015 | 40 | 88.2 | 3530 | 44 | 84.6 | 3,722 |
| 2. TDC PROGRAM | | | | | | | (54,456) | | | (29,155) | | | (27,342) |
| A. LMST | A | | | | 6 | 1.0 | 6,000 | 3 | 1.25 | 3,750 | 3 | 1.25 | 3,750 |
| B. ICAP | A | | | | 13 | N/A[1] | 48,456 | 4 | N/A[1] | 25,405 | 4 | N/A[1] | 23,592 |
| | | | | | | | | | | | | | |
| TOTAL | | | | | | | 62,471 | | | 32,685 | | | 31,064 |

REMARKS:
1. UNIT COST VARIES BECAUSE SIZING/COMPOSITION OF ICAP PACKAGES DEPENDS ON APPLICATION.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A)

DATE:
FEBRUARY 1998

APPROP CODE/BA:
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

P-1 NOMENCLATURE:
TACTICAL C-E EQUIPMENT

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--------------------------------|--------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| 1. PACER SPEAK (AN/GRC-206) | | | | | | | | | |
| A. (V5) UPGRADE | | | | | | | | | |
| FY97 | 130 | 62 | AFMC/ESC | OPT/FFP [2] | HUGHES FT WAYNE, IN | MAR 97 | DEC 97 | | |
| FY98 | 40 [1] | 88 [6] | AFMC/ESC | SS/FFP | HUGHES FT WAYNE, IN | APR 98 | APR 99 | YES | |
| FY99 | 44 [1] | 85 [6] | AFMC/ESC | OPT/FFP [7] | HUGHES FT WAYNE, IN | JAN 99 | JAN 00 | YES | |
| 2. TDC PROGRAM | | | | | | | | | |
| A. LMST | | | | | | | | | |
| FY97 | 6 | 1.0 | AFMC/ESC | OPT/MIPR [3] | ARMY/CECOM HARRIS CORP MELBOURNE, FL | AUG 97 | MAY 98 | | |
| FY98 | 3 | 1.25 | AFMC/ESC | OPT/MIPR [3] | ARMY/CECOM HARRIS CORP MELBOURNE, FL | APR 98 | APR 99 | YES | |
| FY99 | 3 | 1.25 | AFMC/ESC | OPT/MIPR [3] | ARMY/CECOM HARRIS CORP MELBOURNE, FL | JAN 99 | JAN 00 | YES | |
| B. ICAP | | | | | | | | | |
| FY97 | 13 | N/A [4] | AFMC/ESC | OPT/ FFP [5] | MOTOROLA SSTG SCOTTSDALE, AZ | JUN 97 | JUN 98 | | |
| FY98 | 4 | N/A [4] | AFMC/ESC | OPT/ FFP [5] | MOTOROLA SSTG SCOTTSDALE, AZ | FEB 98 | DEC 98 | | |

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PAGE NO: 171

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: TACTICAL C-E EQUIPMENT |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|------------------|------|-----------|-----------------|------------------------|---------------------------------|------------|------------------------|-----------------|----------------------|
| FY99 | 4 | N/A [4] | AFMC/ESC | OPT/ FFP [5] | MOTOROLA SSTG SCOTTSDALE, AZ | FEB 99 | DEC 99 | YES | |

REMARKS:

1. QUANTITIES MAY HAVE TO BE ADJUSTED BASED UPON NEGOTIATED PRICE AT CONTRACT AWARD.
2. OPTION TO FY95 SINGARS/ANDVT INTEGRATION CONTRACT WITH HUGHES.
3. OPTION TO FY95 C/FFP CONTRACT WITH HARRIS CORP, MELBOURNE, FL.
4. UNIT COST VARIES BECAUSE SIZING/COMPOSITION OF ICAP PACKAGES DEPENDS ON APPLICATION.
5. OPTION TO FY96 ICAP CONTRACT WITH MOTOROLA SSTG; RECURRING COSTS ARE FFP.
6. THE FY 98 AND FY 99 UNIT COST FIGURES ARE HIGHER THAN FY 97 UNIT COSTS BECAUSE PROCUREMENTS QUANTITIES ARE SIGNIFICANTLY BELOW THE EFFICIENT PRODUCTION RATE OF 30 PER MONTH.
7. OPTION TO FY98 SS/FFP CONTRACT.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: COMBAT SURVIVOR/EVADER LOCATOR (CSEL) RADIO | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | 250 | 705 | 2175 | 2294 | 2265 | 1000 | 1000 |
| COST <small>(in thousands)</small> | | \$2,858 | \$5,599 | \$13,757 | \$14,512 | \$14,327 | \$5,866 | \$6,007 |
| DESCRIPTION: | | | | | | | | |
| <p>The Combat Survivor/Evader Locator (CSEL) system will address existing deficiencies in Combat Search and Rescue (CSAR). CSEL will replace existing PRC-90 and PRC-112 survival radios with current and emerging technologies in a new end-to-end system to provide enhanced CSAR capabilities. CSEL system features include a new radio which incorporates near real-time geopositioning, two-way over-the-horizon secure data messaging, verification of evader identification and status, low probability of intercept/detection, anti-jam, and the potential integration of commercial satellite systems capabilities.</p> <p>The CSEL program was following a standard new start acquisition path until the June 1995 shutdown, evasion, and eventual recovery of a US pilot heightened the urgency to develop and acquire an enhanced CSAR capability. In July 1995, the Under Secretary of Defense for Acquisition and Technology USD(A&T) issued a memorandum directing the accelerated development of a CSEL capability. In November 1995, the Vice Chief of Staff/Air Force approved the CSEL operational requirements document and the USD(A&T) approved the overall acquisition strategy. In December 1995, the Secretary of Defense endorsed the CSEL program, including a four-phase plan for CSAR.</p> <p>In February 1996, the Commander, Space and Missile Systems Center announced the contract award of a cost plus award fee contract (Air Force RDT&E funds) for the development of CSEL. Reference Program Element 35176F of the Air Force Descriptive Summaries.</p> <p>The first production option was awarded on 18 July 1997 with delivery of the first production units scheduled for 2nd quarter of FY98. 23,450 CSEL radios will be purchased by the Air Force. Ultimately, an estimated 40,000+ CSEL radios will be procured by the Air Force, Army, and Navy. CSEL is a joint procurement with the Army and Navy funding separately to buy similar quantities of CSEL radios. Radio unit costs are contingent on full participation by all three Services.</p> <p>FY97 Other Procurement Air Force funding procured the first option of 250 CSEL radio units and 1 base station. FY98 funds procure 705 radios and 1 base station. FY99 funds procure 2,175 radios.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: RADIO EQUIPMENT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$12,303 | \$18,852 | \$12,203 | \$16,510 | \$14,228 | \$8,829 | \$4,471 |
| DESCRIPTION: | | | | | | | | |
| <p>This program upgrades existing and procures new radio equipment for the Air Force. The bulk of Air Force large high frequency (HF) radio stations located around the world are more than 20 years old, costly and increasingly difficult to maintain. In light of a declining support posture, and the move to collocate/close U.S. facilities overseas, the Department of Defense (DOD) HF Mission Area Review (MAR) directed the Services/agencies to reduce and collocate HF resources throughout the world. The Joint Staff tasked the Air Force to be the executive agent for the DOD HF collocation effort.</p> <p>1. SCOPE COMMAND HIGH FREQUENCY (HF) RADIO STATION REPLACEMENT: The SCOPE COMMAND program provides for the modernization of selected high power HF ground radio equipment. This program supports the Mystic Star, United States Air Force Global HF System, Defense Communications Systems (DCS) HF Entry, US Navy HICOM, and other high power HF networks. It also supports war plans and operational requirements for the following organizations: White House Communications Agency (WHCA), Joint Chiefs of Staff (JCS), Defense Information Systems Agency (DISA), Air Mobility Command (AMC), Air Combat Command (ACC), Air Intelligence Agency (AIA), Air Force Space Command (AFSPC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), and Air Reserve and Guard Forces.</p> <p>The SCOPE COMMAND program, which is divided into distinct phases, ultimately upgrades 14 Air Force HF stations with commercial-off-the-shelf equipment and postures the Air Force to move to centralized control with unmanned HF radio facilities (Lights Out). Phase A procures a limited capability to provide Automatic Link Establishment (ALE) to 14 global ground HF radio stations to meet AMC aircraft modification schedules. Phase A includes all equipment and installation costs to provide this ALE capability. Phase B procures equipment for the full HF capability to satisfy Air Force HF mission requirements. Phase B includes the equipment, engineering, and installation costs to achieve full operational (Full-up) capability over and above the Phase A capability. Phase C includes the definition, design and installation of a Centralized Net Control Station (CNCS) to satisfy the requirement for fully automated remote control of all Air Force HF assets. Phase C procures the software and equipment necessary to complete the Lights Out requirement at the 14 HF Global Stations. Other program costs include: Type 1 factory training and antenna replacement at Phase B Full-up stations.</p> <p>FY 97 funding provided for a Phase A ALE capability at 5 sites and provided funding for the SCOPE COMMAND equipment/engineering/integration of two Phase B full-up HF stations at Lajes, Portugal, and Ascension Island, UK, Type 1 training, and initial engineering for the Phase C (CNCS/Lights-Out). FY98 funding provides for the SCOPE COMMAND equipment/engineering/integration of a Phase B full-up HF station at Andrews AFB MD and Yokota AB, Japan and implementation/integration of the Phase C (CNCS/Lights-Out) capability at two test sites, as well as Type I training and Antenna upgrades at nine locations. FY 99 funding provides for the SCOPE COMMAND equipment/engineering/integration of two Phase B full-up HF stations, as well as completion of the Phase C (CNCS/Lights-Out) capability at 9 sites, Type 1 training, and four replacement antennas.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: RADIO EQUIPMENT | |
| <p>2. AF OFFICE OF SPECIAL INVESTIGATION (AFOSI) TACTICAL RADIO SYSTEM: AFOSI requires reliable radio communications to ensure its criminal, counterintelligence, and force protection missions are accomplished during contingency operations. AFOSI must disseminate real-time threat and force protection information to many users to accomplish this mission. This includes the timely reporting of threat information to base defense forces. The tactical radio systems will allow AFOSI to effectively communicate with other US and Allied forces. Protection of agents in hostile environments is dependent upon the ability to report problems and request assistance. As information collectors, the ability to disseminate is critical to mission accomplishment. FY97 funding procured upgrades to land mobile radio trunking and Very High Frequency (VHF) systems to meet the National Telecommunications and Information Administration (NTIA) mandates for future frequency narrowbanding and digital encryption standards. No FY99 funding requested.</p> <p>3. ACC TRUNKED LAND MOBILE RADIO (LMR) SYSTEM: Trunked LMR systems provide trunking infrastructure to manage all radio nets under a single integrated network with significantly reduced bandwidth. FY97 provided funding for trunked systems at Holloman AFB, NM and Langley AFB, VA. FY98 will procure LMRs for Minot AFB, ND. FY99 will complete the procurement of LMRs for Offutt AFB, NE and Seymour-Johnson AFB, SC.</p> <p>4. US AIR FORCE ACADEMY (USAFA) TRUNKED LMR SYSTEM: A trunked LMR system replaced the existing Land Mobile Radio network at the USAFA. The new system improved communications coverage and frequency management using state-of-the-art technology. The effort included replacing the infrastructure of the mobile radio network as well as replacing the subscriber units. FY97 funds completed the procurement. No FY99 funding requested.</p> <p>5. LOS ANGELES AFB (LA AFB) TRUNKED LMR SYSTEM: A trunked LMR system replaced the existing Land Mobile Radio network at the LA AFB. The new system improved communications coverage and frequency management using state-of-the-art technology. The effort included replacing the infrastructure of the mobile radio network as well as replacing the subscriber units. FY97 funds completed the procurement. No FY99 funding requested.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: RADIO EQUIPMENT |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|---|-------|-----------|-----------------|------------------------|---|------------|------------------------|-----------------|----------------------|
| 1. SCOPE COMMAND HF RADIO STATION REPLACEMENT | | | | | | | | | |
| PHASE A (ALE) | | | | | | | | | |
| FY 97 | 5 [1] | N/A [2] | AFMC/SM-ALC | OPT/FFP [3] | ROCKWELL, RICHARDSON, TX | AUG 97 | JUL 98 | | |
| PHASE B (FULL UP) | | | | | | | | | |
| FY 97 | 2 [1] | VAR [2] | AFMC/SM-ALC | OPT/FFP [3] | ROCKWELL, RICHARDSON, TX | JUN 97 | JAN 99 | | |
| FY 98 | 2 [1] | VAR [2] | AFMC/SM-ALC | OPT/FFP [3] | ROCKWELL, RICHARDSON, TX | MAR 98 | JUL 99 | YES | |
| FY 99 | 2 [1] | VAR [2] | AFMC/SM-ALC | OPT/FFP [3] | ROCKWELL, RICHARDSON, TX | JAN 99 | JUL 00 | YES | |
| PHASE C (CNCS/ LIGHTS OUT) | | | | | | | | | |
| FY 98 ANTENNAS | 4 [1] | VAR [2] | AFMC/SM-ALC | OPT/FFP [3] | ROCKWELL, RICHARDSON, TX | MAY 98 | JUN 99 | YES | |
| FY 99 ANTENNAS | 9 [1] | VAR [2] | AFMC/SM-ALC | OPT/FFP [3] | ROCKWELL, RICHARDSON, TX | JAN 99 | JAN 00 | YES | |
| 2. AFOSI TACTICAL RADIO SYSTEM | | | | | | | | | |
| TRUNKING SYSTEMS FY 97 | 2 | 84 | HQ AFOSI | MIPR/ID/IQ/ FP [6] | ARMY/SMC, BSTRS CORP HANOVER, MA. | SEP 97 | OCT 97 | | |
| VHF SYSTEM UPGRADE FY 97 | 2 | 127 | HQ AFOSI | C/FP | MOTOROLA, INC HANOVER, MD | JUL 97 | AUG 97 | | |
| 3. ACC TRUNKED LMR SYSTEM | | | | | | | | | |
| FY 97 | VAR | N/A [4] | HQ ACC | OPT/FFP [5] | MULT | MAY 97 | DEC 97 | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: TV EQUIPMENT (AFRTV) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$2,402 | \$2,058 | \$1,984 | \$2,020 | \$2,055 | \$2,080 | \$2,082 |
| DESCRIPTION: | | | | | | | | |
| <p>This continuing program procures broadcasting equipment needed by the Air Force Broadcasting Service (AFBS) to support the worldwide mission of the Armed Forces Radio and Television Service (AFRTS). The Air Force operates radio and television facilities overseas in support of the internal information mission of United States Central Command, United States Pacific Command, Air Combat Command, Air Force Space Command, and United States Air Forces Europe. This program also procures radio and television equipment for the Air Force News Agency (AFNEWS) Production Center, Kelly AFB, TX, which produces and distributes corporate Air Force radio and television news productions to AFRTS outlets, commercial stations and Air Force units throughout the world in support of the Air Force's Internal Information Program and the Army and Air Force Hometown News Service.</p> <p>1. AFRTS EQUIPMENT PROCUREMENT: FY97-99 funds procure radio and television broadcasting equipment to include TV cameras, audio consoles, video cassette recorders, audio recorders, integrated receiver decoders, generators, equalizers, mixers, multi-channel video/audio switchers, editors, routers, TV monitors, radio/TV transmitters and antennae, microwave transmitters and antennae, satellite downlinks and fiber optic links, and specialized test equipment. This funding is critical to ensure the capability to deliver AFRTS radio and TV service to uniformed service members, civilian employees, and family members serving overseas, many of whom are serving in remote locations where AFRTS is their sole source of news and information. Failure to fund this program in its entirety will delay the replacement of aging equipment, thereby increasing the frequency of maintenance and repair to keep the older equipment in serviceable condition.</p> <p>2. AFNEWS PRODUCTION CENTER: FY97-99 funds procure radio and TV broadcasting equipment for use within the AFNEWS Production Center. Equipment includes electronic news gathering cameras, amplifiers, receivers, generators, mixers, switchers, routers, monitors, video cassette recorders/players, editors, camcorders, consoles, equalizers, transmitters, portable satellite uplink, and keyboards. Failure to fund this program will impede the ability of AFNEWS to produce and distribute radio and TV productions in support of the Air Force's Internal Information Program and the Army Air Force Hometown News Service.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT |
|---|--|

| | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|
| QUANTITY | | | | | | | |
| COST (in thousands) | \$4,145 | \$3,868 | \$3,195 | \$3,255 | \$3,308 | \$3,346 | \$3,358 |

DESCRIPTION:
 Closed Circuit Television (CCTV) and Audiovisual (AV) systems are used throughout the Department of the Air Force. Television and AV systems have numerous applications and products derived from these systems, all dedicated to the warfighter for operational support and for readiness training, operations, medical, public and internal information, testing and evaluation, and corporate communications programs. Prior year funding continued procurement of small and lighter transportable television systems for AF combat camera forces. Projected funding for combat camera forces includes the introduction of digital video cameras and recording systems that will enhance the transmission of video data through satellite and terrestrial terminals to commanders at all levels. Additionally, this funding continues to replace older television studio systems with newer and more capable equipment and systems for Air Force television production, video teleconferencing and video teletraining centers. These systems are helping meet the challenges of Air Force downsizing while continuing to meet the evergrowing visual communications needs of Air Force commanders worldwide. CCTV systems are centrally managed to insure full interoperability with all other electronic image acquisition and presentation systems in the Air Force. FY97-99 CCTV/AV projects are described below.

- ELECTRONIC IMAGING SYSTEMS:** FY97 funding concludes procurement of the initial program. Under this program, film cameras and film based equipment are being replaced with electronics based systems Air Force-wide by 1997. The procurement of digitally based processing systems and video/data presentation systems provides greater flexibility and response to acquirers and users of visual imagery. The transition has reduced industrial space requirements and reduced reliance on environmentally hazardous photographic chemicals. No FY99 funding requested.
- IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:** FY97-99 funds continue procurement of replacement equipment and upgrades for studio based closed circuit television equipment. Advances in technology increasingly offer digitally based equipment for image signal capture, processing, editing and transmission. The technology offers greater capability, reliability and quality. This equipment includes editing and duplication, and all accessories necessary from image capture, processing, to distribution. This program funds equipment for 19 production centers and provides products for combat operations, education and training, and corporate communications.
- INTERACTIVE VIDEODISC (IVD):** FY97 concludes funding for upgrades Air Force-wide to include Digital Video Interactive, a system for incorporating interactive motion imagery within the IVD workstations. IVD technology reduces training time, automates training record keeping and provides better skilled and knowledgeable technicians. No FY99 funding requested.
- COMBAT CAMERA SYSTEMS:** The FY97-99 program provides funding to replace heavily used and worn mobile combat documentation video cameras and portable video recorders for mobility tasked combat camera crews Air Force-wide. This program provides for technology upgrades to portable video systems and includes lightweight digital video cameras and camcorders that provide enhanced video quality to the warfighter. These newer systems reduce workload, enhance transportability and enable combat camera personnel to transmit motion and still imagery across satellite and cable transmission systems providing warfighters

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: CCTV/AUDIOVISUAL EQUIPMENT | |
| <p>greater flexibility in decision-making with real-time operational and combat imagery.</p> <p>5. VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS: In FY94, Air Education and Training Command (AETC) initiated Distance Learning which is designed to accommodate the Field Training Detachment drawdown by transmitting training from Sheppard AFB, TX to remotely located classrooms. Distance Learning includes a process known as Video Teletraining (VTT), which is managed by this program. The Sheppard AFB facility will ultimately export 123 courses covering over 5,000 hours of instruction. FY97-98 funds continue the VTT initiative with procurement of additional channel and classroom equipment at bases to support an expanded broadcast schedule for Air University (AU) and AETC's training needs. No FY99 funding requested.</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: BASE COMMUNICATION INFRASTRUCTURE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$27,408 | \$30,089 | \$27,829 | \$28,503 | \$28,915 | \$28,840 | \$29,200 |
| DESCRIPTION: | | | | | | | | |
| <p>The Base Communications Infrastructure program supports procurement of communications equipment for base-level infrastructure programs that either replaces maintenance intensive equipment, replaces or upgrades existing digital switching systems, provides network management of information systems, or increases the capacity of saturated information transmission systems to facilitate the rapid dissemination of vital command and control and business processing systems information. Requirements are established by Major Command (MAJCOM), Air National Guard (ANG) or Air Force Reserve (AFR) components, and fall outside the Combat Information Transport System requirements contained in P-1 Line # 59 entitled Base Information Infrastructure.</p> <p>NOTE: Funding for the Air National Guard (ANG) and Civil Engineers (CE) was formerly funded/appropriated in Base Information Infrastructure, P-1 Line # 59. These projects have been consolidated under this P-1 line to provide better visibility and management of similar programs. FY97 funding for the ANG and CE (appropriated on P-1 Line # 59) is displayed on this budget document in order to provide complete funding profiles.</p> <p>The following depicts FY97-99 projects with funding in this Base Communications Infrastructure line.</p> <ol style="list-style-type: none"> 1. AIR FORCE OFFICE OF SPECIAL INVESTIGATION (AFOSI) SWITCH: AFOSI is scheduled to move from Bolling AFB, DC to Andrews AFB, MD in 1998 necessitating the installation of dedicated analog lines for secure communications, fax capabilities, and classified and unclassified internetworking cable. AFOSI must also be compatible with the current telecommunications architecture at Andrews AFB which will require procurement of new telephone equipment and instruments. FY98 funding will procure the communications hardware and engineering/integration support necessary to support this new system. No FY99 funding is requested. 2. AIR FORCE COMMUNICATIONS AGENCY (AFCA) SUPPORT: This program procures a variety of small-scale communications and information systems equipment items in support of AFCA's Information Technology (IT) mission. Communications and Information Systems are supported by this funding. FY99 funds will be used to purchase real-time video systems, upgrades for satellite terminals, and high speed data processing equipment to host models and simulations. 3. CIVIL ENGINEERING (CE) REGIONAL PROCESSING CENTER (RPC) CONNECTIVITY: The regionalization of civil engineering data automation systems requires connectivity from base civil engineering units to the regional processing centers. This connectivity will allow CE to continue operation as they transition from proprietary hardware to the DoD mandated open systems environment. FY97-98 funding provides for internal building cabling, hubs, and servers at multiple CE sites. No FY99 funding is requested. 4. AIR NATIONAL GUARD (ANG) TELECOMMUNICATIONS SYSTEMS: FY97-99 continues to provide base communications infrastructure funding for upgraded | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: BASE COMMUNICATION INFRASTRUCTURE | |
| <p>communications systems at multiple ANG sites. Funding procures new and upgraded digital switching systems (DSS), Private Branch Exchanges (PBXs), and Information Transport Systems (ITS) enabling migration to Asynchronous Transfer Mode (ATM) data networks. These networks include voice, video, imagery, telemetry and base information protection systems. These systems help ensure that the ANG (in support of ANG state and federal missions) maintains technologically viable systems that are compatible and interoperable with the DoD and Air Force command, control, communications, computer, information and intelligence architecture.</p> <p>5. AIR FORCE SPACE COMMAND (AFSPC): FY98-99 provides Air Force Space Command base communications infrastructure funding for the command-wide modernization and life cycle replacement of information transmission systems, base information infrastructure, and base communications infrastructure. Funds provide for procurement of wide and local area network hardware and software, upgrade and replace secure/nonsecure telephone switches at main bases and remote geographically separate units, and supporting life cycle replacement of base communications infrastructure. These funds will supplement funding provided by the Air Force Combat Information Transport System (CITS) program by providing critical base-level network connectivity to facilities not funded under the CITS program. These funds are essential to support Air Force Core Competencies such as Air/Space Superiority and Information Superiority. AFSPC FY98/99 funding will upgrade command wide administrative switches, provide fiber to non-core command buildings, install wire in support of CITS and acquire ATM and synchronous optical network (SONET) equipment not delivered by CITS.</p> | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|--|---------------|--|--|--|---------|--|---------------|---------|--------------|---------------|------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | | | P-1 NOMENCLATURE: BASE COMMUNICATION INFRASTRUCTURE | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. AFOSI SWITCH | A | | | | | | | VAR | N/A | 414 | | | |
| 2. AFCA SUPPORT | A | | | | | | | | | | VAR | N/A | 458 |
| 3. CE RPC CONNECTIVITY | A | | | | VAR | N/A | 7,828 | VAR | N/A | 3,076 | | | |
| 4. ANG TELECOMMUNICATIONS SYSTEM | A | | | | VAR | N/A | 19,580 | VAR | N/A | 22,217 | VAR | N/A | 23,013 |
| 5. AFSPC | A | | | | | | | VAR | N/A | 4,382 | VAR | N/A | 4,358 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| TOTAL | | | | | | | 27,408 | | | 30,089 | | | 27,829 |
| | | | | | | | | | | | | | |
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| REMARKS: | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
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| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: BASE COMMUNICATION INFRASTRUCTURE | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. AFOSI SWITCH | | | | | | | | | | |
| FY98 | VAR[1] | N/A[2] | AFOSI | MIPR/FFP | GSA/MULT [3] | DEC 97 | JAN 98 | | | |
| 2. AFCA SUPPORT | | | | | | | | | | |
| FY99 | VAR[1] | N/A[2] | AFCA | MIPR/FFP | GSA/MULT [3] | JAN 99 | MAY 99 | YES | | |
| 3. CE RPC CONNECTIVITY | | | | | | | | | | |
| FY97 | VAR[1] | N/A[2] | AFCESA | MIPR/FFP | GSA/MULT [3] | JAN 97 | MAR 97 | | | |
| FY98 | VAR[1] | N/A[2] | AFCESA | MIPR/FFP | GSA/MULT [3] | NOV 97 | JAN 98 | | | |
| 4. ANG TELECOMMUNICATIONS SYSTEMS | | | | | | | | | | |
| FY97 | VAR[1] | N/A[2] | ANG | VAR[4] | MULT [4] | JAN 97 | FEB 97 | | | |
| FY98 | VAR[1] | N/A[2] | ANG | VAR[4] | MULT [4] | JAN 98 | JAN 98 | | | |
| FY99 | VAR[1] | N/A[2] | ANG | VAR[4] | MULT [4] | JAN 99 | MAR 99 | YES | | |
| 5. AFSPC | | | | | | | | | | |
| FY98 | VAR[1] | N/A[2] | AFSPC | C/FP | MULT [5] | JAN 98 | MAY 98 | YES | | |
| FY99 | VAR[1] | N/A[2] | AFSPC | C/FP | MULT [5] | JAN 99 | MAY 99 | YES | | |
| REMARKS: | | | | | | | | | | |
| GENERAL: DATES OF THE FIRST CONTRACT AWARD AND DELIVERY ARE LISTED IN THE CASES OF MULTIPLE CONTRACTS/CONTRACTORS. | | | | | | | | | | |
| 1. VARIOUS QUANTITIES OF EQUIPMENT DEPENDENT ON SITE CONFIGURATION | | | | | | | | | | |
| 2. UNIT COSTS N/A DUE TO VARYING SITE CONFIGURATIONS | | | | | | | | | | |
| 3. MULTIPLE TYPES OF EQUIPMENT WILL BE PROCURED OFF THE GSA SCHEDULE. | | | | | | | | | | |
| 4. VARIOUS CONTRACTS AVAILABLE: GSA SCHEDULE, AT&T FEDERAL COMMUNICATIONS SYSTEMS, SILVER SPRING, MD; AT&T, ENGLEWOOD, CO; TENNMARK, NASHVILLE, TN; SUN MICRO SYSTEMS, ALEXANDRIA, VA.; GTE GOVERNMENT SYSTEMS; DICHROMA, FALLS CHURCH, VA; AMERIND INC, ALEXANDRIA ,VA; PRESIDIO, LANHAM, MD; DIGICOM, BETHESDA MD; NORTEL, RICHARDSON TX; AND ZDS, HERNDON, VA | | | | | | | | | | |
| 5. MULTIPLE FAIR AND OPEN COMPETITION CONTRACTS: AFSPC COMMAND CONTRACT, GSA , SMALL BUSINESS. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: CIVIL AIR PATROL (CAP) COMMUNICATIONS AND ELECTRONICS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$ 0 | \$ 623 | \$ 378 | \$ 388 | \$ 396 | \$ 0 | \$ 0 |
| DESCRIPTION: The Civil Air Patrol (CAP) Communications and Electronics Program is a continuing program for acquisition of communications and computer equipment required to support nationwide CAP activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counterdrug, disaster relief and training activities. CAP activities require automated data processing equipment (ADPE) support for processing and storage of CAP membership information, aerospace education and cadet training program data, operational and logistics data, bookstore, depot inventory and sales information (CAP accounting system) and other day-to-day management activities. FY99 funding continues procurement of such items as (1) very high frequency-frequency modulated (VHF-FM) transceivers and signal repeaters; (2) high frequency (HF) transceivers, power supplies and antennas; (3) high frequency voice system upgrade, and (4) National Digital Radio Network (NDRN) Expansion Project. | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$9,824 | \$8,754 | \$7,106 | \$7,137 | \$6,564 | \$6,227 | \$6,204 |
| DESCRIPTION: | | | | | | | | |
| <p>The "Items Less Than \$2 Million" line funds various procurement activities which support the missions of all Air Force Major Commands. This program contains numerous miscellaneous items of electronics and telecommunications equipment; no single item procured in this P-1 line is greater in cost than \$2 million. Two of the major procurement activities in this line are for Allowance Sources (AS) equipment and replacement power conditioning equipment. Miscellaneous AS authorizations provide support to organizational units in the field in terms of newly authorized and/or replacement items of equipment. Power Conditioning and Continuation Interface Equipment (PCCIE) systems are used to back up and protect power sensitive/dependent computer systems. Projects associated with FY97-99 funding are described below:</p> | | | | | | | | |
| <p>1. ALLOWANCE SOURCES (AS) AUTHORIZATIONS: Requirements funded in this program are generated as the result of condemnations of existing equipment, an increase in the basis of issue on an individual item, or a change in the basing structure. Units requisition items based on authorizations contained in Allowance Sources (AS) which tailor support equipment authorizations to unit missions. The Equipment Item Requirements Computation generates a total net buy requirement based on a comparison of authorizations and on-hand assets. Examples of equipment procured are: special electronics atmospheric equipment, electronic warfare and bombing gunnery ranges, equipment for communications evaluation/maintenance teams, and ground radar special mission and support equipment. FY97-99 funds continue funding for Air Force AS requirements.</p> | | | | | | | | |
| <p>2. POWER CONDITIONING AND CONTINUATION INTERFACE EQUIPMENT (PCCIE): PCCIE consists of a family of commercial equipment or devices which provide specialized electric power conditioning or regulation to support power sensitive data processing, communications, life support and mission critical equipment. Examples are solid state uninterruptible power systems and power (line) conditioners. This program procures replacement PCCIE for all Major Commands (MAJCOMs) and Field Operating Agencies (FOAs) as well as for the Air National Guard (ANG) and Air Force Reserve (AFR). PCCIE for new systems is procured in conjunction with the major end items of equipment in the same P-1 line where the equipment is bought. FY97-99 funds continue PCCIE procurement for multiple Air Force programs.</p> | | | | | | | | |
| <p>3. CIVIL AIR PATROL (CAP): FY97 funds procured digital radio equipment to support the National Digital Radio Network (NDRN) Expansion Project and the Civil Air Patrol High Frequency Voice Upgrade project. FY98 and FY99 funds are budgeted under P-1 Line Number 75, CAP Com & Electronics.</p> | | | | | | | | |
| <p>4. MOBIL MICROWAVE LANDING SYSTEM (MMLS) RECEIVERS: FY97 funding is for the procurement of MMLS Portable Measurement Receivers used to measure signal strengths from MMLS receiver equipped aircraft to allow ground technicians to align the ground MMLS in austere deployed locations. This system enables the site commander to make the decision to allow tactical use of the MMLS before a formal Air Traffic Control and Landing Systems (ATCALs) flight check can be accomplished. No FY99 funding requested.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | | | | P-1 NOMENCLATURE: COMM-ELECTRONICS MODIFICATIONS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$24,892 | \$51,905 | \$57,701 | \$60,715 | \$45,950 | \$43,465 | \$43,491 |
| DESCRIPTION: | | | | | | | | |
| <p>Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for Communication-Electronics equipment and systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY97-FY99 are ongoing or planned for the following systems: Atmospheric Early Warning System (AEWS), Ground Tactical Air Control System (GTACS), Air Traffic Control and Landing Systems (ATCALs), Weather Observation and Forecast, Cheyenne Mountain Complex (CMC), Ballistic Missile Early Warning System (BMEWS). Details follow by system: (\$ in thousands)</p> <p>1. ATMOSPHERIC EARLY WARNING SYSTEM (AEWS), together with the Ballistic Missile Warning System and the Space Surveillance System, form the Integrated Tactical Warning and Attack Assessment (ITW/AA) network. The AEWS provides the early warning for all atmospheric threats, e.g., aircraft and cruise missiles approaching the northern hemisphere. The AEWS includes sensors (AN/FPS-117, AN/FPS-118, and AN/FPS-124) and the operations centers (Regional Operations Control Centers/Sector Operations Control Centers (ROCCs/SOCCs)) that use the AN/FYQ-93 computer system to fuse and act on warning data to launch intercepts at potential hostile threats. The system data is forwarded to the National Command Center at Cheyenne Mountain Complex for overall control of defense operations by North American Aerospace Defense (NORAD) Command. Modifications are ongoing on the following equipment items:</p> <p style="padding-left: 40px;">a. The AN/FPS-117 long range radar is a minimally attended, solid-state radar that detects and tracks air breathing targets at ranges of up to 200 nautical miles (NM). Various versions of the AN/FPS-117 have been fielded under the SEEK IGLOO program, the North Warning System, and the North Atlantic Defense Systems (NADS). Data from the AN/FPS-117 is forwarded and processed by the AN/FYQ-93 computer at the operations control centers.</p> | | | | | | | | |
| MOD # | DESCRIPTION | | | PY | FY97 | FY98 | FY99 | |
| 38516B | AN/FPS-117 RELIABILITY, MAINT & SUPR IMPROVEMENT | | | 14,000 | 5,046 | 4,900 | 291 | |
| | TOTAL | | | 14,000 | 5,046 | 4,900 | 291 | |
| <p>2. GROUND THEATER AIR CONTROL SYSTEM (GTACS): The GTACS consist of the ground based portion of the Theater Air Control System (TACS), and consists of a family of Communications-Electronics components that provide the battlefield commander with systems and resources to support situational</p> | | | | | | | | |
| | | | | P-1 ITEM: 77 | | | PAGE NO: 197 | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------------------|-------|-------|-------------|------|------|------|--------|---------------------------|---|---|-----|--------|------------------------|---|---|-----|--|-------|---|---|-------|------|-------------|----|------|------|------|-------|------------------------------|--|-------|--|--|-------|-----------------------------------|-------|--|-------|--|-------|-------------------------------|--|-------|--|--|--|--|--|-----|--|--|--|--------------------|--|-----|-----|--|--|-------|-------|-------|-------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: COMM-ELECTRONICS MODIFICATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>awareness, joint, allied, and combined forces planning, execution of the air tasking order, all interdiction, close air support, counter air, airlift, air refueling, special operation, electronic combat, surveillance, reconnaissance, and search and rescue mission. The GTACS also plays a major role in Theater Missile Defense (TMD) and the evolving concept of Theater Battle Management (TBM).</p> <p>a. The AN-TPS-75: The GTACS uses the AN/TPS-75 radar as its primary sensor. The TPS-75 radar is an upgrade to the 1940's vintage AN/TPS-43E radar. The AN/TPS-75 has an ultra low sidelobe antenna (ULSA) which added an electronic countermeasures capability to the AN/TPS-43E. The AN/TPS-75 radar is a mobile, three dimensional (range, azimuth, altitude) surveillance, acquisition, and tracking radar used in the GTACS for aerospace control in the theater of air operations. It has an operating range of 240 miles and altitude coverage up to 95,000 feet. The AN/TPS-75 radar is fielded in the active Air Force and the Air National Guard TACS.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align:left;">MOD#</th> <th style="text-align:left;">DESCRIPTION</th> <th style="text-align:right;">FY97</th> <th style="text-align:right;">FY98</th> <th style="text-align:right;">FY99</th> </tr> </thead> <tbody> <tr> <td>M00016</td> <td>RADAR SHELTER REPLACEMENT</td> <td style="text-align:right;">-</td> <td style="text-align:right;">-</td> <td style="text-align:right;">967</td> </tr> <tr> <td>M00018</td> <td>UPX-27 IFF INTEROGATOR</td> <td style="text-align:right;">-</td> <td style="text-align:right;">-</td> <td style="text-align:right;">970</td> </tr> <tr> <td></td> <td>TOTAL</td> <td style="text-align:right;">-</td> <td style="text-align:right;">-</td> <td style="text-align:right;">1,937</td> </tr> </tbody> </table> <p>3. AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALs) is a combination of USAF ground facilities and equipment with associated avionics, personnel and procedures that provide air traffic control to USAF/DoD flying missions worldwide. ATCALs provide enroute and terminal navigation, control and separation, and approach, departure and landing guidance. ATCALs provide operability with NATO, the U.S. National Airspace System and the International Civil Aviation Organization. Includes both fixed and tactical equipment/systems.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align:left;">MOD#</th> <th style="text-align:left;">DESCRIPTION</th> <th style="text-align:right;">PY</th> <th style="text-align:right;">FY97</th> <th style="text-align:right;">FY98</th> <th style="text-align:right;">FY99</th> </tr> </thead> <tbody> <tr> <td>B6403</td> <td>AN/FRN-45 TACAN FCPU UPGRADE</td> <td></td> <td style="text-align:right;">1,400</td> <td></td> <td></td> </tr> <tr> <td>B7165</td> <td>AN/TPN-19 LANDING CONTROL CENTRAL</td> <td style="text-align:right;">7,100</td> <td></td> <td style="text-align:right;">1,723</td> <td></td> </tr> <tr> <td>B7167</td> <td>AN/TRN-41 ANTENNA TRANSMITTER</td> <td></td> <td style="text-align:right;">5,421</td> <td></td> <td></td> </tr> <tr> <td></td> <td>MOBILE MICROWAVE LANDING SYSTEM (MMLS)</td> <td></td> <td style="text-align:right;">500</td> <td></td> <td></td> </tr> <tr> <td></td> <td>LOW COST MISC MODS</td> <td></td> <td style="text-align:right;">658</td> <td style="text-align:right;">627</td> <td></td> </tr> <tr> <td></td> <td>TOTAL</td> <td style="text-align:right;">7,100</td> <td style="text-align:right;">7,979</td> <td style="text-align:right;">2,350</td> <td></td> </tr> </tbody> </table> <p>4. The WEATHER OBSERVATION AND FORECAST system supports the worldwide meteorological missions of the Air Force, the Army, and the unified commands. Included are fixed and transportable equipment needed to provide observing and forecast services at base or post and for field deployments; and fixed and tactical dedicated weather communications equipment to support weather operations for the warfighters.</p> | | | | MOD# | DESCRIPTION | FY97 | FY98 | FY99 | M00016 | RADAR SHELTER REPLACEMENT | - | - | 967 | M00018 | UPX-27 IFF INTEROGATOR | - | - | 970 | | TOTAL | - | - | 1,937 | MOD# | DESCRIPTION | PY | FY97 | FY98 | FY99 | B6403 | AN/FRN-45 TACAN FCPU UPGRADE | | 1,400 | | | B7165 | AN/TPN-19 LANDING CONTROL CENTRAL | 7,100 | | 1,723 | | B7167 | AN/TRN-41 ANTENNA TRANSMITTER | | 5,421 | | | | MOBILE MICROWAVE LANDING SYSTEM (MMLS) | | 500 | | | | LOW COST MISC MODS | | 658 | 627 | | | TOTAL | 7,100 | 7,979 | 2,350 | |
| MOD# | DESCRIPTION | FY97 | FY98 | FY99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M00016 | RADAR SHELTER REPLACEMENT | - | - | 967 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M00018 | UPX-27 IFF INTEROGATOR | - | - | 970 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL | - | - | 1,937 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOD# | DESCRIPTION | PY | FY97 | FY98 | FY99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B6403 | AN/FRN-45 TACAN FCPU UPGRADE | | 1,400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B7165 | AN/TPN-19 LANDING CONTROL CENTRAL | 7,100 | | 1,723 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B7167 | AN/TRN-41 ANTENNA TRANSMITTER | | 5,421 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MOBILE MICROWAVE LANDING SYSTEM (MMLS) | | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LOW COST MISC MODS | | 658 | 627 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL | 7,100 | 7,979 | 2,350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 | | |
|---|--|-------------------------------|---------------|--|
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: COMM-ELECTRONICS MODIFICATIONS | | | |
| MOD # DESCRIPTION | FY97 | FY98 | FY99 | |
| 94-003A WSR-88D TRANSMITTER UPGRADE | 1,867 | 1,800 | 533 | |
| 94-008 CENTRALIZED DATABASE MANAGEMENT SYSTEM (CDMS) UPGRADE | | 2,037 | | |
| 95-001 AF GWC DIAL-IN SUBSYSTEM (AFDIS) & AFW INFORMATION NETWORK (AFWIN) | | 5,410 | | |
| 94-003B WSR-88D RADAR DATA ACQUISITION (RDA) GROUP MIGRATION TO OPEN SYSTEM | | | 2,200 | |
| 96-001 SOLAR ELECTRO-OPTICAL NETWORK (SEON) SOLAR MAX (SSM) | | 4,629 | 50 | |
| 93-005 RADIO SOLAR TELESCOPE NETWORK (RSTN) MOD FOR SRBL | | 2,200 | 5,300 | |
| 95-010 TACTICAL FORECAST SYSTEM (TFS)/AWDS MERGED SYSTEM, TFS-2000 | | 6,787 | 1,713 | |
| 93-008 AN/FMH-2 AUTOMATED WEATHER DISTRIBUTION SYSTEM (AWDS) FUNCT AREAS | | 925 | 818 | |
| 95-003 WEATHER INFORMATION PROCESSING SYSTEM (WIPS) UPGRADE | | | 5,581 | |
| 94-004A WSR-88D RADAR PRODUCT GENERATOR (RPG) MIGRATION | | 904 | 1,182 | |
| 94-004B PRINCIPAL USER PROCESSOR (PUP) GROUP REPLACEMENT | | 635 | 2,000 | |
| 95-011 TACTICAL METEOROLOGICAL OBSERVING SYSTEM UPGRADE | | 1,653 | 1,746 | |
| 96-031 IMPROVED SOLAR OBSERVING OPTICAL NETWORK (ISOON) | | | 1,300 | |
| TOTAL | 1,867 | 26,980 | 22,423 | |

5. The CHEYENNE MOUNTAIN COMPLEX (CMC) provides: (1) Real-time processing and display of missile warning and force management information to the CMC and the alternate Processing and Correlation Center, and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) communications services for all communications into or out of CMC and between CMC mission processors, (3) new processors and display systems supporting the CMC Air Defense Operations Center (ADOC), North American Aerospace Defense (NORAD) Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) an effective command post to support NORAD's multiple warning and defense missions; (5) automated handling of space surveillance and warning messages; (6) communications interface processors at all missile warning sensors and command

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT | P-1 NOMENCLATURE: COMM-ELECTRONICS MODIFICATIONS | | |
| centers: and an alternate NORAD command center, alternate missile warning center, alternate air warning center. | | | |
| MOD # | DESCRIPTION | FY98 | FY99 |
| S7201713501 | SPACDOC 3090 MAINFRAME | 3,776 | 8,080 |
| S7201802202 | AUTODIN | 885 | |
| S529382 | BYTEX/MPDS-R | | 2,627 |
| MISC | MISC LOW COST MODS | 474 | 102 |
| TOTAL | | 5.135 | 10,809 |
| 6. The BALLISTIC MISSILE EARLY WARNING SYSTEM (BMEWS). The BMEWS has three sites located at Thule, Greenland; Clear, Alaska; and Flyingdales, England with the mission to detect and provide warning of a ballistic missile attack on the United States, Canada, United Kingdom, or Europe. BMEWS was built in the late 1950's; the Thule and Flyingdales radars were upgraded to phased-array technology in 1987 and 1992. The BMEWS was originally built as a trip-wire system in response to the 1950's threat; however, this threat has evolved through several generations of ICBMs/SLBMs; therefore, target handling and accuracy capabilities need to be upgraded to better discriminate Reentry Vehicles from other objects in order to obtain a more accurate raid count and impact prediction. | | | |
| MOD # | DESCRIPTION | FY98 | FY99 |
| | CLEAR ALASKA RADAR UPGRADE | 12,540 | 22,241 |
| | TOTAL | 12,540 | 22,241 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: AN/FPS-117 Reliability, Maintainability, and Supportability (RMS) Upgrade, 38516B
Models of Systems Affected: Comm-Electronics - Atmospheric Early Warning System (AEWS).

Description/Justification: This modification will improve reliability/maintainability above 2160 hours MTBF to support the un-manned operational concept. Replaces unreliable equipment, eliminates on-site manual adjustments of the preprocessor, and replaces the Operations Control Group with open system architecture technology. If this modification is not funded, continuing system Deficiencies will result in increased logistics support cost, reduced reliability/maintainability, loss of un-manned Canadian site coverage, and impact on operational availability. A total of 34 operational radar upgrade kits will be procured along with 4 kits to outfit the MCS. Different configurations result in kit cost variances. Contract awarded Aug 95, protest resolved Jan 96. The total requirement is for 38 kits funded through FY99. PY funds 19 kits and covers non recurring cost. FY97 funds 10 kits, FY98 funds the final 9.

Development Status/Major Development Milestones: 6 Mth TIM Jul 96; 12 Mth TIM Feb 97; SI/NW First Article Oct 97; INR First Article Jan 98.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | 19 | 7.0 | 10 | 4.7 | 9 | 3.8 | | | | | | | 38 | 15.5 |
| Equipment Kits Non-recurring | | 6.0 | | | | | | | | | | | 0 | 6.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | 0.6 | | | | | | | | | | | 0 | 0.6 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | 0.2 | | | | | | | | | | | 0 | 0.2 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | 0.2 | | | | | | | | | | | 0 | 0.2 |
| Total Procurement Costs: | 19 | 14.0 | 10 | 4.7 | 9 | 3.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 38 | 22.5 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (19 Kits) | | | | | 19 | 0.7 | | | | | | | 19 | 0.7 |
| (FY97 Eqpt (10 Kits) | | | | | 10 | 0.3 | | | | | | | 10 | 0.3 |
| (FY98 Eqpt (9 Kits) | | | | | 4 | 0.1 | 5 | 0.3 | | | | | 9 | 0.4 |
| (FY99 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 33 | 1.1 | 5 | 0.3 | 0 | 0.0 | 0 | 0.0 | 38 | 1.4 |
| Total Modification Costs: | 19 | 14.0 | 10 | 4.7 | 9 | 4.9 | 0 | 0.3 | 0 | 0.0 | 0 | 0.0 | 38 | 23.9 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|------|--------|------|----------------|---|--------|------|----------------|------|--|-----|----------------|-----|-----|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 12 Month(s) | | | | | | | | | | |
| Contract Date: | FY96 | DEC 96 | FY97 | OCT 97 | FY98 | FEB 98 | FY99 | JAN 99 | FY00 | | FY01 | | | | | | | | | | | |
| Delivery Date: | FY96 | APR 98 | FY97 | OCT 98 | FY98 | JUN 98 | FY99 | APR 99 | FY00 | | FY01 | | | | | | | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | 4 | 12 | 9 | 10 | | 3 | | | | | | | | | | | 38 |
| Output | | | | | | 4 | 12 | 9 | 10 | | 3 | | | | | | | | | | | 38 |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: AN/TPS-75 RADAR Shelter Replacement: Mod # M00016 **Models of Systems Affected:** Comm Electronics - GTACS - AN/TPS-75

Description/Justification: This modification replaces the current Radar equipment shelter with an improved version with increased weight capability to handle weight growth already incurred. The current shelters are 20 years old, deteriorated, corroded, and overloaded. There are consistently increasing overall operation and maintenance costs. Several shelters do not support the operational mission or are mission limiting. Development of this shelter is funded by 3400/583 Sustaining Engineering dollars. Installation costs covered in Depot overhaul.

Development Status/Major Development Milestones: Technical Solution: Sep 96, FSD Contract: TBD

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 12 | 1.0 | 12 | 1.0 | | | 24 | 2.0 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 12 | 1.0 | 12 | 1.0 | 0 | 0.0 | 24 | 2.0 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99 Eqpt (12 Kits) | | | | | | | 6 | 0.0 | 6 | 0.0 | | | 12 | 0.0 |
| (FY00 Eqpt (12 Kits) | | | | | | | | | 6 | 0.0 | 6 | 0.0 | 12 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 6 | 0.0 | 12 | 0.0 | 6 | 0.0 | 24 | 0.0 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 12 | 1.0 | 12 | 1.0 | 0 | 0.0 | 24 | 2.0 |

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|---|-----------|----------------|-----|------|-----|----------------|---|------|-----|----------------|-----|---|-----|----------------|-----|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: DEPOT, DEPOT INSTALL | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 8 Month(s) | | | | | | | | | | |
| Contract Date: | | FY96 | | FY97 | | FY98 | | FY99 | | OCT 98 | | FY00 | | OCT 99 | | FY01 | | | | | | |
| Delivery Date: | | FY96 | | FY97 | | FY98 | | FY99 | | JUN 99 | | FY00 | | JUN 00 | | FY01 | | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 0 | 24 |
| Output | | | | | | | | | | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 24 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: AN/TPS RADAR Identify Friend or Foe (IFF) Interrogator Replacement, **Models of Systems Affected:** Comm Electronics - GTACS - AN/TPS-75
 MOD # M00018

Description/Justification: This modification replaces the current UPX-23 Interrogator with a modern, more reliable and supportable UPX-27. Two UPX-27's are required per Radar plus six backup asset inventory items. The poor reliability of the UPX-23's Mode 4 ability channel has limited the ability of the AN/TPS-75 Radar to support its mission. The US Navy stopped providing Depot level support for the UPX-23 in 1995. The UPX-23 supportability is now impacted by diminishing manufacturing sources. The UPX-27 provides a modern interrogator with supportable circuit cards. There are 70 UPX-27's in the fleet, 35 more are required. The 70 plus 35 UPX-27 systems will be at Field Change 10 configuration.

Development Status/Major Development Milestones: Contract award: Oct 98, CCB: Feb 98, PR: Feb 98

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-----------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 15 | 1.0 | 20 | 1.4 | | | 35 | 2.4 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 15 | 1.0 | 20 | 1.4 | 0 | 0.0 | 35 | 2.4 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99 Eqpt (15 Kits) | | | | | | | | 15 | 0.0 | | | | 15 | 0.0 |
| (FY00 Eqpt (20 Kits) | | | | | | | | | | 20 | 0.0 | | 20 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 15 | 0.0 | 20 | 0.0 | 0 | 0.0 | 35 | 0.0 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 15 | 1.0 | 20 | 1.4 | 0 | 0.0 | 35 | 2.4 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|------|-----|--------|----------------|---|-----|--------|----------------|------|-----|-----|--------------|
| Method of Installation: ORGANIZATION, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 9 Month(s) | | | | | Production Lead-time: 7 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | OCT 98 | | FY00 | | OCT 99 | | FY01 | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | MAY 99 | | FY00 | | MAY 00 | | FY01 | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | | | 7 | 8 | | | 10 | 10 | | | | | 35 |
| Output | | | | | | | | | | | | 7 | 8 | | | 10 | 10 | | | | | 35 |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: WSR-88D (NEXRAD) Transmitter Upgrade, 94-003A **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification will hold a rotary, uninterrupted, transition power source (TPS) to condition commercial and generator power, and provide a stable ride-through when transferring between the two power sources. This modification will significantly reduce maintenance costs and improve reliability to enable the system to meet its DoD mandated operational availability rate of 96 percent. Major causes of transmitter component failure is power fluctuations, which occur due to spikes in commercial power and during transition to and from generator power. Funding has been obligated to procure eight kits in FY97, and will buy ten kits in FY98, and four kits in FY99.

Development Status/Major Development Milestones: ECP was approved by the Program Management Council in Feb 96.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | 8 | 1.9 | 10 | 1.8 | 4 | 0.5 | | | | | 22 | 4.2 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 8 | 1.9 | 10 | 1.8 | 4 | 0.5 | 0 | 0.0 | 0 | 0.0 | 22 | 4.2 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (8 Kits) | | | | | 8 | | | | | | | | 8 | 0.0 |
| (FY98 Eqpt (10 Kits) | | | | | | | | 10 | | | | | 10 | 0.0 |
| (FY99 Eqpt (4 Kits) | | | | | | | | 4 | | | | | 4 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 8 | 0.0 | 14 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 0.0 |
| Total Modification Costs: | 0 | 0.0 | 8 | 1.9 | 10 | 1.8 | 4 | 0.5 | 0 | 0.0 | 0 | 0.0 | 22 | 4.2 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----------------|-----|------|-----|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: DEPOT, DEPOT INSTALL | | | | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 5 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | FY97 | | AUG 97 | | FY98 | | NOV 97 | | FY99 | | NOV 98 | | FY00 | | FY01 | | | | |
| Delivery Date: | | FY96 | | FY97 | | JAN 98 | | FY98 | | APR 98 | | FY99 | | APR 99 | | FY00 | | FY01 | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | 4 | 4 | 3 | 3 | 2 | 2 | 4 | | | | | | | | 22 |
| Output | | | | | | | | 4 | 4 | 3 | 3 | 2 | 2 | 4 | | | | | | | | 22 |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: WSR-88D, Radar Data Acquisition (RDA) Group Migration to Open System, 94-003B **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: The WSR-88D transmitter is experiencing a higher than expected failure rate. This Mod (94-003B) will take the proprietary software and hardware of the RDA and migrate them to open system standards. This will result in decreased retrofit costs since current single source components would be replaced with open standard hardware available from multiple vendors. In addition, software maintenance would be made more efficient and cost-effective. Vendor specific code would be replaced with modular code written to open system standards. Non-recurring equipment costs include non-recurring engineering. Kit funding will buy one first article kit in FY99, 10 kits in FY00 (including two for training systems at Keesler, AFB MS), 18 kits in FY01 (including one trainer for Keesler AFB).

Development Status/Major Development Milestones: PDR: 3rd QTR FY99; CDR: 1st QTR FY00

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|-----|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | |
| RDT&E | | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 | |
| Procurement: | | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 1 | 0.1 | 10 | 1.0 | 18 | 1.7 | 29 | 2.8 | |
| Equipment Kits Non-recurring | | | | | | | | 1.8 | | 0.5 | | 0.1 | 0 | 2.4 | |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 | |
| Data | | | | | | | | 0.1 | | 0.1 | | | 0 | 0.2 | |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 | |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 | |
| Software | | | | | | | | | | | | | 0 | 0.0 | |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 | |
| Other | | | | | | | | 0.2 | | 0.2 | | 0.2 | 0 | 0.6 | |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 2.2 | 10 | 1.8 | 18 | 2.0 | 29 | 6.0 | |
| Hardware Installation: | | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 | |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 | |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 | |
| (FY99 Eqpt (1 Kits) | | | | | | | | 1 | 0.0 | | | | 1 | 0.0 | |
| (FY00 Eqpt (10 Kits) | | | | | | | | | | 10 | 0.1 | | 10 | 0.1 | |
| (FY01 Eqpt (18 Kits) | | | | | | | | | | | | 18 | 0.1 | 18 | 0.1 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.0 | 10 | 0.1 | 18 | 0.1 | 29 | 0.2 | |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 2.2 | 10 | 1.9 | 18 | 2.1 | 29 | 6.2 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----------------|-----|------|-----|----------------|---|------|-----|----------------|-----|---|-----|----------------|-----|------|-----|----------------|-----|-----|-----|--------------|----|
| Method of Installation: DEPOT, DEPOT INSTALL | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 5 Month(s) | | | | | | | | | | | |
| Contract Date: | | FY96 | | FY97 | | FY98 | | FY99 | | MAR 99 | | FY00 | | DEC 99 | | FY01 | | OCT 00 | | | | | |
| Delivery Date: | | FY96 | | FY97 | | FY98 | | FY99 | | AUG 99 | | FY00 | | MAY 00 | | FY01 | | MAR 01 | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total | |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | | |
| Input | | | | | | | | | | | | | 1 | | | 5 | 5 | | | 6 | 6 | 6 | 29 |
| Output | | | | | | | | | | | | | 1 | | | 5 | 5 | | | 6 | 6 | 6 | 29 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Solar Electro-Optical Network (SEON) Solar Maximum (SSM) Modification, 96-001 **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: The SSM modification finances critical elements of an integration effort meshing upgraded/new SEON components into a more capable, reliable, cost effective, and automated network of observing sites. Integrates the SEON Sweep Frequency Interferometric Radiometer (SFIR), Solar Radio Burst Locator (SRBL), and Improved Solar Observing Optical Network (ISOON) to allow remote operation from the 55th Space Weather Squadron (55 SWXS) centralized forecasting facility. Also automates a self-contained weather system for asset protection at each site; data will be routed to the 55 SWXS. Failure to fund this modification will profoundly impact the ability of 55 SWXS to detect and analyze solar flares for potential impacts to military communications, radar effectiveness, navigation, and other warfighting capabilities.

Development Status/Major Development Milestones: RFP-1Qtr FY98, Source Selection-2Qtr FY 98, PDR-TBD, CDR-TBD, IOC-4Qtr FY99, FOC 3Qtr FY00

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 4 | 1.6 | | | | | | | 4 | 1.6 |
| Equipment Kits Non-recurring | | | | | | 2.6 | | | | | | | 0 | 2.6 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | 0.4 | | | | | | | 0 | 0.4 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 4 | 4.6 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 4.6 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98) Eqpt (4 Kits) | | | | | | | | 1 | 0.1 | 3 | 0.2 | | 4 | 0.3 |
| (FY99) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY00) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 3 | 0.2 | 0 | 0.0 | 4 | 0.3 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 4 | 4.6 | 0 | 0.1 | 0 | 0.2 | 0 | 0.0 | 4 | 4.9 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|--------|-----|-----|----------------|---|-----|--------|----------------|-----|------|-----|--------------|--------|--|--|------|--|--|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 2 Month(s) | | | | | | | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | APR 98 | | | FY99 | | | NOV 98 | | | FY00 | | | NOV 99 | | | FY01 | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | JUN 99 | | | FY99 | | | JAN 99 | | | FY00 | | | JAN 00 | | | FY01 | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total | | | | | | |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | | | | | | | |
| Input | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | 4 | | |
| Output | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | 4 | | |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Radio Solar Telescope Network (RSTN) Solar Radio Burst Locator (SRBL), 93-005
Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The SRBL complements the companion Solar Observing Optical Network (SOON) in accurately defining the intensity and location of solar flare activity on the solar disk. The SRBL is required to replace components and improve capabilities of the aged and degraded RSTN. SRBL will provide location of solar flare associated radio bursts and will be fitted with an expanded frequency range, message generation and transmission, and automated operations. The SRBL program sustainment engineering and modification, if not funded, will degrade the warfighter's ability to discriminate between solar induced effects and electronic jamming on missile radars, ability to provide warning of lethal and damaging radiation to high altitude aircraft, manned space activities, satellite operations, and space surveillance.

Development Status/Major Development Milestones: RFP-1Qtr FY98, Source Selection-2Qtr FY 98, Contract Award-2Qtr FY98, PDR-TBD, CDR-TBD

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 1.8 | 3 | 4.9 | | | | | 4 | 6.7 |
| Equipment Kits Non-recurring | | | | | | 0.2 | | 0.1 | | | | | 0 | 0.3 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 0.2 | | 0.2 | | | | | 0 | 0.4 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 2.2 | 3 | 5.2 | 0 | 0.0 | 0 | 0.0 | 4 | 7.4 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (1 Kits) | | | | | | | | 1 | 0.1 | | | | 1 | 0.1 |
| (FY99 Eqpt (3 Kits) | | | | | | | | | | 3 | 0.3 | | 3 | 0.3 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 3 | 0.3 | 0 | 0.0 | 4 | 0.4 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 2.2 | 3 | 5.3 | 0 | 0.3 | 0 | 0.0 | 4 | 7.8 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|--|------|-----|----------------|-----|------|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 11 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | JAN 98 | | FY99 | | JAN 99 | | FY00 | | OCT 99 | | FY01 | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | DEC 98 | | FY99 | | DEC 99 | | FY00 | | SEP 00 | | FY01 | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | 1 | | | | 1 | 1 | 1 | | | | | | 4 |
| Output | | | | | | | | | | 1 | | | | 1 | 1 | 1 | | | | | | 4 |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Tactical Forecast System (TFS) Automated Weather Distribution System (AWDS) - TFS/AWDS Merged System, TFS-2000, 95-010 **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: Air Force Weather Agency (AFWA) developed the AWDS for peacetime fixed base weather support and the closely related Tactical AWDS (TAWDS) for tactical weather support. More recently AFWA developed the TFS to replace TAWDS; therefore, the older AWDS will be merged with the new TFS to form a new baseline—TFS-2000. To accomplish this merger, the AWDS functions must be merged with TFS to form a single baseline hosted on a common platform. The merged systems will have similar physical architecture and identical functionality. In addition, AF Weather will centralize most functions in 13 geographic Operational Weather Squadrons. Benefits include reduced support and training costs and greater wartime effectiveness. The hardware consists of USAF standard workstation equipment.

Development Status/Major Development Milestones:

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 6 | 1.2 | 7 | 1.4 | | | | | 13 | 2.6 |
| Equipment Kits Non-recurring | | | | | | 5.2 | | | | | | | 0 | 5.2 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 0.4 | | 0.3 | | | | | 0 | 0.7 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 6 | 6.8 | 7 | 1.7 | 0 | 0.0 | 0 | 0.0 | 13 | 8.5 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (6 Kits) | | | | | 6 | | | | | | | | 6 | 0.0 |
| (FY99 Eqpt (7 Kits) | | | | | | | | 7 | | | | | 7 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 6 | 0.0 | 7 | 0.0 | 0 | 0.0 | 0 | 0.0 | 13 | 0.0 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 6 | 6.8 | 7 | 1.7 | 0 | 0.0 | 0 | 0.0 | 13 | 8.5 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 6 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | JAN 98 | | FY99 | | OCT 98 | | FY00 | | FY01 | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | JUN 98 | | FY99 | | MAR 99 | | FY00 | | FY01 | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | 6 | | | | 7 | | | | | | | | | 13 |
| Output | | | | | | | | | 6 | | | | 7 | | | | | | | | | 13 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Tactical Forecast System (TFS) Automated Weather Distribution System (AWDS) - TFS/AWDS Merged System, TFS-2000, 95-010 **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: Air Force Weather Agency (AFWA) developed the AWDS for peacetime fixed base weather support and the closely related Tactical AWDS (TAWDS) for tactical weather support. More recently AFWA developed the TFS to replace TAWDS; therefore, the older AWDS will be merged with the new TFS to form a new baseline—TFS-2000. To accomplish this merger, the AWDS functions must be merged with TFS to form a single baseline hosted on a common platform. The merged systems will have similar physical architecture and identical functionality. In addition, AF Weather will centralize most functions in 13 geographic Operational Weather Squadrons. Benefits include reduced support and training costs and greater wartime effectiveness. The hardware consists of USAF standard workstation equipment.

Development Status/Major Development Milestones:

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 6 | 1.2 | 7 | 1.4 | | | | | 13 | 2.6 |
| Equipment Kits Non-recurring | | | | | | 5.2 | | | | | | | 0 | 5.2 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 0.4 | | 0.3 | | | | | 0 | 0.7 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 6 | 6.8 | 7 | 1.7 | 0 | 0.0 | 0 | 0.0 | 13 | 8.5 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (6 Kits) | | | | | 6 | | | | | | | | 6 | 0.0 |
| (FY99 Eqpt (7 Kits) | | | | | | | | 7 | | | | | 7 | 0.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 6 | 0.0 | 7 | 0.0 | 0 | 0.0 | 0 | 0.0 | 13 | 0.0 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 6 | 6.8 | 7 | 1.7 | 0 | 0.0 | 0 | 0.0 | 13 | 8.5 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|-----|-----|--------------|--|--|----|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 6 Month(s) | | | | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | JAN 98 | | FY99 | | OCT 98 | | FY00 | | FY01 | | | | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | JUN 98 | | FY99 | | MAR 99 | | FY00 | | FY01 | | | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total | | | |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | | | | |
| Input | | | | | | | | | 6 | | | | | | | | 7 | | | | | | | | 13 |
| Output | | | | | | | | | 6 | | | | | | | | 7 | | | | | | | | 13 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Air Force Global Weather Center (AFGWC) Weather Information Processing System (WIPS) Upgrade, 95-003 **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: The WIPS ingests and processes over 140,000 time-sensitive weather reports each day. These reports, when decoded, validated and processed, form the analyses of current weather that become the foundation of virtually every environmental product issued by AFGWC. This program will upgrade the hardware and software in order to meet operational requirements to include the Theater Battlefield Management (TBM) data flow. FY99 funds one modification kit and nonrecurring kit costs, and Interim Contractor Support. FY00 funds an additional equipment kit.

Development Status/Major Development Milestones: Contract Award: Jan 99

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 1 | 2.0 | 1 | 1.7 | | | 2 | 3.7 |
| Equipment Kits Non-recurring | | | | | | | | 3.4 | | | | | 0 | 3.4 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | | | 0.2 | | 0.2 | | | 0 | 0.4 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 5.6 | 1 | 1.9 | 0 | 0.0 | 2 | 7.5 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99) Eqpt (1 Kits) | | | | | | | | 1 | | | | | 1 | 0.0 |
| (FY00) Eqpt (1 Kits) | | | | | | | | | | 1 | 0.1 | | 1 | 0.1 |
| (FY01) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.1 | 0 | 0.0 | 2 | 0.1 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 5.6 | 1 | 2.0 | 0 | 0.0 | 2 | 7.6 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|------|-----|--------|----------------|---|-----|--------|----------------|------|-----|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 3 Month(s) | | | | | Production Lead-time: 3 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | JAN 99 | | FY00 | | JAN 00 | | FY01 | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | APR 99 | | FY00 | | APR 00 | | FY01 | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | | | 1 | | | | 1 | | | | | | 2 |
| Output | | | | | | | | | | | | 1 | | | | 1 | | | | | | 2 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: WSR-88D, Principle User Processor (PUP) Replacement - Open System **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast Radar Product Generator (RPG) Migration, 94-004A

Description/Justification: The Radar Product Generator (RPG) is the primary processor that converts base radar data into displayable products. The PUP and RPG components rely on proprietary software and hardware leading to unnecessarily high hardware and software maintenance/repair costs. This modification will migrate the RPG software to open system standards and port it to commercial off-the-shelf multiple vendor hardware platforms. Migration to an open system will result in more cost-effective maintenance and logistics. It will reduce life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance by enabling easier integration of new algorithms into the system software, and provide a capability for direct interface to current and planned weather processing and display systems (AWDS and MOC).

Development Status/Major Development Milestones: CCB approval of CCR: Jun 96

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 0.1 | 8 | 0.3 | 20 | 1.0 | | | 29 | 1.4 |
| Equipment Kits Non-recurring | | | | | | 0.6 | | 0.4 | | | | | 0 | 1.0 |
| Engineering Change Orders | | | | | | | | 0.1 | | | | | 0 | 0.1 |
| Data | | | | | | | | 0.2 | | | | | 0 | 0.2 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 0.1 | | 0.1 | | 0.1 | | | 0 | 0.3 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.8 | 8 | 1.1 | 20 | 1.1 | 0 | 0.0 | 29 | 3.0 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98) Eqpt (1 Kits) | | | | | 1 | 0.1 | | | | | | | 1 | 0.1 |
| (FY99) Eqpt (8 Kits) | | | | | | | | 8 | 0.1 | | | | 8 | 0.1 |
| (FY00) Eqpt (20 Kits) | | | | | | | | | | 20 | 0.1 | | 20 | 0.1 |
| (FY01) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 8 | 0.1 | 20 | 0.1 | 0 | 0.0 | 29 | 0.3 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.9 | 8 | 1.2 | 20 | 1.2 | 0 | 0.0 | 29 | 3.3 |

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|---|-----------|----------------|-----|------|-----|----------------|---|------|--------|----------------|--------|---|-----|----------------|-----|-----|-----|----------------|-----|-----|-----|--------------|
| Method of Installation: DEPOT, DEPOT INSTALL | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 6 Month(s) | | | | | | | | | | |
| Contract Date: | | FY96 | | FY97 | | FY98 | FEB 98 | FY99 | NOV 98 | FY00 | NOV 99 | FY01 | | | | | | | | | | |
| Delivery Date: | | FY96 | | FY97 | | FY98 | SEP 98 | FY99 | MAY 99 | FY00 | MAY 00 | FY01 | | | | | | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | 1 | | | 4 | 4 | | | 10 | 10 | | | | | 29 |
| Output | | | | | | | | | 1 | | | 4 | 4 | | | 10 | 10 | | | | | 29 |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: WSR-88D, Principle User Processor (PUP) Group Replacement, 94-004B **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: The Principle User Processor (PUP) workstation is the primary vehicle for displaying NEXRAD data. The Radar Product Generator (RPG) is the primary processor that converts base radar data into displayable products. Both components rely on proprietary software and hardware. This modification will migrate the PUP software to open system standards and port it to commercial off-the-shelf multiple vendor hardware platforms. Migration to an open system PUP will result in more cost-effective maintenance and logistics. It will reduce life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance by enabling easier integration of new algorithms into the system baseline, and provide a greater capability for direct interface to current and planned weather processing and display systems (AWDS and MOC).

Development Status/Major Development Milestones: CCR submitted Aug 96, CCB approval of CCR Sep 96.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 0.1 | 45 | 0.9 | 66 | 1.3 | 40 | 0.8 | 152 | 3.1 |
| Equipment Kits Non-recurring | | | | | | 0.4 | | 0.5 | | 0.1 | | | 0 | 1.0 |
| Engineering Change Orders | | | | | | | | 0.1 | | | | | 0 | 0.1 |
| Data | | | | | | | | 0.2 | | 0.1 | | | 0 | 0.3 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 0.1 | | 0.1 | | 0.1 | | 0.1 | 0 | 0.4 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.6 | 45 | 1.8 | 66 | 1.6 | 40 | 0.9 | 152 | 4.9 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (1 Kits) | | | | | 1 | | | | | | | | 1 | 0.0 |
| (FY99 Eqpt (45 Kits) | | | | | | | | 45 | 0.2 | | | | 45 | 0.2 |
| (FY00 Eqpt (66 Kits) | | | | | | | | | | 66 | 0.4 | | 66 | 0.4 |
| (FY01 Eqpt (40 Kits) | | | | | | | | | | | 40 | 0.2 | 40 | 0.2 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.0 | 45 | 0.2 | 66 | 0.4 | 40 | 0.2 | 152 | 0.8 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.6 | 45 | 2.0 | 66 | 2.0 | 40 | 1.1 | 152 | 5.7 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|------|-----|--------------|--|
| Method of Installation: DEPOT, DEPOT INSTALL | | | | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 6 Month(s) | | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | FEB 98 | | FY99 | | DEC 98 | | FY00 | | NOV 99 | | FY01 | | NOV 00 | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | AUG 98 | | FY99 | | JUN 99 | | FY00 | | MAY 00 | | FY01 | | MAY 01 | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total | |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | | |
| Input | | | | | | | | | 1 | | | 10 | 11 | 13 | 11 | 16 | 16 | 16 | 18 | 20 | 20 | 152 | |
| Output | | | | | | | | | 1 | | | 10 | 11 | 13 | 11 | 16 | 16 | 16 | 18 | 20 | 20 | 152 | |

UNCLASSIFIED

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: Tactical Meteorological (TACMET) Observing Equipment Upgrade, 95-011

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification provides the means to allow Combat Command and Control Elements automatic access to current and representative surface weather observations. It provides the required elements of cloud height, surface visibility, present weather, wind speed and direction, wind gusts, variable wind direction, temperature, dew point, relative humidity, barometric pressure (sea level pressure and station pressure), altimeter setting, density altitude, and precipitation rate and amount. Additional sensors provide soil temperature, soil moisture, nighttime illumination, and lightning detection. The existing TACMET observing systems are not capable of measuring all required parameters, are error prone, and are too manpower intensive to operate efficiently and are not interoperable with customer C4I systems.

Development Status/Major Development Milestones:

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 32 | 1.0 | 40 | 1.2 | 234 | 5.9 | | | 306 | 8.1 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 0.6 | | 0.4 | | | | | 0 | 1.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 32 | 1.6 | 40 | 1.6 | 234 | 5.9 | 0 | 0.0 | 306 | 9.1 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (32 Kits) | | | | | 32 | 0.1 | | | | | | | 32 | 0.1 |
| (FY99 Eqpt (40 Kits) | | | | | | | 40 | 0.1 | | | | | 40 | 0.1 |
| (FY00 Eqpt (234 Kits) | | | | | | | | | 234 | 0.2 | | | 234 | 0.2 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 32 | 0.1 | 40 | 0.1 | 234 | 0.2 | 0 | 0.0 | 306 | 0.4 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 32 | 1.7 | 40 | 1.7 | 234 | 6.1 | 0 | 0.0 | 306 | 9.5 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|------|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 5 Month(s) | | | | | Production Lead-time: 6 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | MAR 98 | | FY99 | | OCT 98 | | FY00 | | OCT 99 | | FY01 | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | AUG 98 | | FY99 | | APR 99 | | FY00 | | APR 00 | | FY01 | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | 15 | 17 | | | 20 | 20 | | | 75 | 75 | 84 | | | | 306 |
| Output | | | | | | | | 15 | 17 | | | 20 | 20 | | | 75 | 75 | 84 | | | | 306 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: AN/FMQ-7 Solar Observing Optical Network Enhancement to Improved Solar Observing Optical Network (ISOON), 96-031 **Models of Systems Affected:** Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification retrofits the 1960's technology optical telescope to decrease maintenance costs and to keep the system operationally effective because various components of the current system are becoming unsupportable. The optical telescopes are the only means of providing real time reporting of solar flare activity. The 55 Space Weather Squadron requires the ISOON's accurate data as input to their forecast models. Accurate solar activity warnings are vital to effective space, radar, and communications missions. Any decrease in accuracy will degrade support to the war fighter. FY99 funding will procure 1 ISOON production unit. FY00 funds procure 3 ISOON production units.

Development Status/Major Development Milestones: Release production RFP: 2QTR FY99, Source Selection: 2QTR FY99, Contract Awd: 3QTR FY99, PDR: TBD, CDR: TBD, IOC: 4QTR FY01, FOC: 3QTR FY02

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 1 | 1.0 | 3 | 3.0 | | | 4 | 4.0 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | | | | | | | | 0 | 0.0 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | 0.3 | | 0.4 | | | 0 | 0.7 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.3 | 3 | 3.4 | 0 | 0.0 | 4 | 4.7 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99 Eqpt (1 Kits) | | | | | | | | | | | 4 | 0.1 | 4 | 0.1 |
| (FY00 Eqpt (3 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 0.1 | 4 | 0.1 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.3 | 3 | 3.4 | 0 | 0.1 | 4 | 4.8 |

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|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|------|-----|--------|----------------|--|-----|--------|----------------|------|-----|-----|--------------|---|---|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 6 Month(s) | | | | | Production Lead-time: 21 Month(s) | | | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | APR 99 | | FY00 | | APR 00 | | FY01 | | | | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | JAN 01 | | FY00 | | JAN 02 | | FY01 | | | | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total | | |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | | | |
| Input | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 2 | 4 |
| Output | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 2 | 4 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: SPADOC - 3090 Mainframe Replacement (S7201713501) **Models of Systems Affected:** Cheyenne Mountain Complex

Description/Justification: This modification replaces SPADOC IBM 3090 Mainframe computer, migrating the system to an Open Systems Architecture. The current IBM 3090 computer is suffering from supportability issues; it is water-cooled, consumes extensive floor space, and has increasing maintenance and operation costs. Replacing this system will reduce sustainment support and ensure mission success, since the IBM 3090 is out of production and will no longer be supported by IBM in the 2002 timeframe. Other costs includes engineering support, testing and integration.

Development Status/Major Development Milestones: Analysis: Oct 98

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|----------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 2.0 | 2 | 4.0 | | | | | 3 | 6.0 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | 0.2 | | 0.4 | | | | | 0 | 0.6 |
| Data | | | | | | 0.3 | | 0.6 | | | | | 0 | 0.9 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | 0.5 | | 1.0 | | | | | 0 | 1.5 |
| Software | | | | | | | | | | | | | 0 | 0.0 |
| Interim Contractor Support | | | | | | | | 0.4 | | | | | 0 | 0.4 |
| Other | | | | | | 0.3 | | 0.6 | | | | | 0 | 0.9 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 3.3 | 2 | 7.0 | 0 | 0.0 | 0 | 0.0 | 3 | 10.3 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (1 Kits) | | | | | 1 | 0.5 | | | | | | | 1 | 0.5 |
| (FY99 Eqpt (2 Kits) | | | | | | | | 2 | 1.0 | | | | 2 | 1.0 |
| (FY00 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 0.5 | 2 | 1.0 | 0 | 0.0 | 0 | 0.0 | 3 | 1.5 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 3.8 | 2 | 8.0 | 0 | 0.0 | 0 | 0.0 | 3 | 11.8 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|-----|------|-----|----------------|---|------|-----|----------------|-----|------|-----|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 6 Month(s) | | | | | Production Lead-time: 5 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | APR 98 | | FY99 | | OCT 98 | | FY00 | | OCT 99 | | FY01 | | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | SEP 98 | | FY99 | | MAR 99 | | FY00 | | MAR 00 | | FY01 | | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | 3 |
| Output | | | | | | | | | | 1 | | 1 | 1 | 1 | | | | | | | | 3 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: BYTEX Switch Replacement/MPDS-R (Mod #S529382) **Models of Systems Affected:** Cheyenne Mountain Complex

Description/Justification: This modification replaces the existing Bytex AS 240 Time Division Multiplexors with a new "non-blocking" switch to handle additional circuit growth capacity. The current switches are slow, becoming unsupportable, and inadequate to support the necessary circuit types (T-1, EIA-530, or LAN) because of limited growth capacity. The overall approach will optimize a distributed architecture to the maximum extent possible and while ensuring compatibility with current Technical Control Systems and processors. The new MPDS-R will allow new missions to interface with the ITW/AA through a standardized connection lowering the cost of new missions having to recreate the current proprietary interface. It will provide a flexible communication architecture, allowing enhanced interoperability between current and projected missions and enabling transition to N/UWSS.

Development Status/Major Development Milestones: CCB Approval: Mar 96.

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|-------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | | | 1 | 1.2 | 2 | 2.4 | 1 | 1.2 | 4 | 4.8 |
| Equipment Kits Non-recurring | | | | | | | | | | | | | 0 | 0.0 |
| Engineering Change Orders | | | | | | | | | | | 0.7 | | 0 | 0.7 |
| Data | | | | | | | 0.2 | | 0.2 | | | | 0 | 0.4 |
| Training Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | | | 0.9 | | 0.8 | | 0.8 | 0 | 2.5 |
| Interim Contractor Support | | | | | | | | 0.2 | | 0.2 | | 0.2 | 0 | 0.6 |
| Other | | | | | | | | | | | | | 0 | 0.0 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 2.5 | 2 | 3.6 | 1 | 2.9 | 4 | 9.0 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY99 Eqpt (1 Kits) | | | | | | | 1 | 0.1 | 2 | 0.1 | 1 | 0.1 | 4 | 0.3 |
| (FY00 Eqpt (2 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY01 Eqpt (1 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 2 | 0.1 | 1 | 0.1 | 4 | 0.3 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 2.6 | 2 | 3.7 | 1 | 3.0 | 4 | 9.3 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|------|-----|--------|----------------|---|-----|--------|----------------|------|-----|--------|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 6 Month(s) | | | | | Production Lead-time: 5 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | DEC 98 | | FY00 | | DEC 99 | | FY01 | | DEC 00 | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | FY99 | | MAY 99 | | FY00 | | MAY 00 | | FY01 | | MAY 01 | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | | | | 1 | | | | 2 | | | | | 1 | 4 |
| Output | | | | | | | | | | | | 1 | | | | 2 | | | | | 1 | 4 |

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| INDIVIDUAL MODIFICATIONS (EXHIBIT P-3A) | DATE: FEBRUARY 1998 |
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Modification Title and No: BMEWS - Clear Alaska Radar Upgrade **Models of Systems Affected:** Ballistic Missile Early Warning System (BMEWS)

Description/Justification: The Clear Radar Upgrade (CRU) upgrades the existing BMEWS located at Clear Air Station Alaska. CRU will correct deficiencies and reduce O&M costs by replacing the mechanical radar with a Solid State Phased Array Radar using the Primary Mission Equipment (PME) removed from the Eldorado AFB, TX PAVE PAWS Radar. New heaters, feed wires, power supply, array plates, and security/communication equipment will be procured. FY98 MILCON funds the facility for the radar. FY98 funds system engineering, the deinstall, transport, and reinstall of PME, and tech studies of the security and communication systems. FY99 funds software adaptation and hardware procurement. FY00 funds provides system integration & testing and install of communications & training equipment.

Development Status/Major Development Milestones: Prime contractor selected Dec 97; Facility construction start Apr 98; Equipment relocation option award Dec 97; System integration & test option award Nov 99; QOT&E Dec 00; Required IOC Jan 01

| Financial Plan (\$ in Millions) | PY | | FY 1997 | | FY 1998 | | FY 1999 | | FY 2000 | | FY 2001 | | TOTAL | |
|----------------------------------|-----|------|---------|------|---------|------|---------|------|---------|------|---------|------|----------|------|
| | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| RDT&E | | | | | | | | | | | | | | |
| Ref. R-1 Line No: | | | | | | | | | | | | | 0 | 0.0 |
| Procurement: | | | | | | | | | | | | | | |
| Equipment Kits | | | | | 1 | 4.2 | 1 | 6.5 | 1 | 4.0 | | | 3 | 14.7 |
| Equipment Kits Non-recurring | | | | | | 1.8 | | 2.3 | 0.6 | | | | 0 | 4.7 |
| Engineering Change Orders | | | | | | | | | | | | | 0 | 0.0 |
| Data | | | | | | 0.1 | | 0.2 | 0.1 | | | | 0 | 0.4 |
| Training Equipment | | | | | | | | 0.3 | 0.0 | | | | 0 | 0.3 |
| Support Equipment | | | | | | | | | | | | | 0 | 0.0 |
| Software | | | | | | 0.0 | | 3.6 | | | | | 0 | 3.6 |
| Interim Contractor Support | | | | | | | | | | | | | 0 | 0.0 |
| Other | | | | | | 2.2 | | 2.8 | 4.3 | | | | 0 | 9.3 |
| Total Procurement Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 8.3 | 1 | 15.7 | 1 | 9.0 | 0 | 0.0 | 3 | 33.0 |
| Hardware Installation: | | | | | | | | | | | | | | |
| (PY) Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY97 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| (FY98 Eqpt (1 Kits) | | | | | 1 | 4.2 | | | | | | | 1 | 4.2 |
| (FY99 Eqpt (1 Kits) | | | | | | | 1 | 6.5 | | | | | 1 | 6.5 |
| (FY00 Eqpt (1 Kits) | | | | | | | | | 1 | 12.2 | | | 1 | 12.2 |
| (FY01 Eqpt (0 Kits) | | | | | | | | | | | | | 0 | 0.0 |
| Total Installation Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 4.2 | 1 | 6.5 | 1 | 12.2 | 0 | 0.0 | 3 | 22.9 |
| Total Modification Costs: | 0 | 0.0 | 0 | 0.0 | 1 | 12.5 | 1 | 22.2 | 1 | 21.2 | 0 | 0.0 | 3 | 55.9 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------|-----|-----|------|----------------|-----|------|-----|---|--------|-----|------|----------------|--|-----|------|----------------|--------|-----|------|--------------|
| Method of Installation: CONTRACTOR, FIELD INSTALL | | | | | | | | | | Administrative Lead-time: 1 Month(s) | | | | | Production Lead-time: 23 Month(s) | | | | | | | |
| Contract Date: | | FY96 | | | FY97 | | | FY98 | | | DEC 97 | | FY99 | | NOV 98 | | FY00 | | NOV 99 | | FY01 | |
| Delivery Date: | | FY96 | | | FY97 | | | FY98 | | | SEP 98 | | FY99 | | SEP 99 | | FY00 | | SEP 00 | | FY01 | |
| Installations: | PY | FY 1997 | | | | FY 1998 | | | | FY 1999 | | | | FY 2000 | | | | FY 2001 | | | | Total |
| | | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | 1ST | 2ND | 3RD | 4TH | |
| Input | | | | | | | | | 1 | | | | | | | | 1 | | | | 1 | |
| Output | | | | | | | | | | | | | | | | | | | | | 3 | |

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1999

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OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

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DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT APPROPRIATION ESTIMATES
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$14,239 | \$11,034 | \$11,021 | \$10,157 | \$9,945 | \$9,429 | \$9,597 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Base/ALC Metrology and Calibration (METCAL) equipment program provides calibration standards grouped in a series of generic measurement packages (Electrical, Mechanical and Systems equipment) to all major Air Force activities having a base Precision Measurement Equipment Laboratory (PMEL). PMELs calibrate and repair equipment used to maintain aircraft, missiles, communications and other ground systems. The PMEL is the direct link between the weapon system and the National Institute of Standards and Technology (NIST). This link ensures the systems used by the operational forces perform their primary mission of delivering weapons on target. Presently there are 83 PMELs and five Field Assistance Teams for Calibration (FASTCALs) worldwide. Funding for these calibration standards is required as all major aircraft depend heavily on offensive and defensive microwave avionics that must be calibrated to function properly in a wartime as well as in a training environment. All aircraft engines and airframes also require this calibration support. Additionally, this budget line supports space and airborne communications/electronics systems such as MILSATCOM. The FY99 program includes funding for 81 PMELs and five FASTCALs remaining after base closures.</p> <p>2. A group of certified calibration standards is required at each base PMEL to assure accurate traceable measurements are made in the basic areas recognized by the NIST. These basic groups of standards enable each Air Force activity to attain standardized measurement and optimum self-sufficiency in the calibration and maintenance of critical precision measurement equipment required for daily base operational capability. The standards packages must be constantly surveyed and upgraded to stay current with the measurement art. A major breakthrough in metrology capability dictates a complete review of a measurement package to assure a cost effective approach to calibration and maintenance. In addition, as new and sophisticated systems enter the Air Force inventory, it is necessary to augment selected PMELs with special calibration standards or auxiliary equipment, the characteristics of which are critical to the systems supported.</p> <p>3. The following support is provided by the measurement packages:</p> <p style="margin-left: 40px;">a. The Electrical and Mechanical Packages consist of equipment for calibration of common Test Measurement and Diagnostic Equipment (TMDE). Equipment procured as part of these packages is normally used by PMEL technicians in a laboratory environment. The equipment and standards provided will establish new or upgrade existing calibration capabilities.</p> <p style="margin-left: 40px;">b. The Electrical Package also provides the PMELs with standards and ancillary equipment used in the electro-optical, radio frequency (RF)/microwave, electrical, RADIAC technologies, and precise time and frequency measurement areas.</p> <p style="margin-left: 40px;">c. Additionally, the Mechanical Package includes standards and ancillary equipment for the mass, dimensional, optical, force, vibration, flow, and environmental measurement areas.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | |
| <p>d. The Systems Package consists of equipment for calibration of common TMDE and Automatic Test Equipment (ATE) outside of a normal PMEL facility. Equipment procured, as part of this package, is normally used for on-site and/or in-place calibration to reduce the time of equipment nonavailability to the user, eliminate the need to disassemble test stations, reduce transportation of delicate equipment, and calibrate to the user's minimum requirement. When not being used for calibration outside the PMEL, this equipment is available for calibration of routine PMEL workload.</p> <p>4. A reduction to FY99 funding will affect the ability of the Air Force to support current weapon system measurements thus jeopardizing accuracies. Flightline calibration support will be reduced because of fewer Portable Automatic Test Equipment Calibrators (PATEC). Additional shipping of calibration standards will be required because fewer base calibration labs will have capability. And calibration traceability and Test Uncertainty Ratios (TURs) will be compromised due to lack of state-of-the-art standards.</p> | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE |
|---|--|

| PROCUREMENT ITEMS | ID CODE | FY1997 | | FY1998 | | FY1999 | | |
|---|---------|--------|------|---------|------|---------|------|---------|
| | | QTY. | COST | QTY. | COST | QTY. | COST | |
| 1. ELECTRICAL PACKAGE | | | | | | | | |
| A. TRANSCONDUCTANCE AMP | A | | 49 | \$ 931 | | | | |
| B. DIGITAL OSCILLOSCOPE | A | | 51 | \$1,632 | | | | |
| C. SOURCE FOR CALIBRATION OF IFF/TACAN TEST SETS (SCITTS) | A | | 90 | \$3,420 | | | | |
| D. HIGH POWER HIGH FREQUENCY AMPLIFIER SYSTEM | A | | | | 6 | \$2,532 | | |
| E. HIGH POWER MEDIUM FREQUENCY AMPLIFIER SYSTEM | A | | | | 11 | \$2,728 | | |
| F. LOW POWER MEDIUM FREQUENCY AMPLIFIER SYSTEM | A | | 11 | \$1,064 | | | | |
| G. ILS/MODULATION METER | | | | | 40 | \$ 720 | 20 | \$ 360 |
| H. COAXIAL POWER MEASUREMENT SYSTEM | A | | | | | | 44 | \$ 550 |
| I. AUTOMATED RESISTANCE SYSTEM | A | | | | | | 24 | \$1,440 |
| J. PHASE NOISE TRANSFER SYSTEM | A | | | | | | 10 | \$ 550 |
| K. METER CALIBRATOR | A | | | | | | 36 | \$ 936 |
| L. ATTENUATION MEASUREMENT RECEIVER | A | | | | | | 13 | \$1,534 |
| M. PROJECTS LESS THAN \$500K/ELECTRICAL PACKAGE | A | | VAR | \$ 708 | VAR | \$2,250 | VAR | \$3,021 |
| 2. MECHANICAL PACKAGE | | | | | | | | |
| A. PORTABLE PRESSURE CALIBRATOR | A | | 110 | \$1,474 | | | | |
| B. FLOW CALIBRATION SYSTEM | A | | 53 | \$ 637 | | | | |
| C. AF75E VIBRATION CALIBRATION | A | | 30 | \$ 748 | | | | |
| D. HYDRAULIC PRESSURE CONTROLLER | A | | | | | | 30 | \$1,035 |
| E. PROJECTS LESS THAN \$500K/MECHANICAL PACKAGE | A | | VAR | \$1,281 | VAR | \$ 249 | VAR | \$1,055 |
| 3. SYSTEMS PACKAGE | | | | | | | | |
| A. PATEC LOCAL OSCILLATOR | A | | 100 | \$2,140 | 112 | \$2,397 | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|---------|--|--|--|----------|--------|-------------------------------|--------|----------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | | | | | |
| PROCUREMENT ITEMS | ID CODE | | | FY1997 | | FY1998 | | FY1999 | |
| | | | | QTY. | COST | QTY. | COST | QTY. | COST |
| B. PORTABLE AUTOMATIC TEST EQUIPMENT CALIBRATOR | A | | | | | | | 2 | \$ 540 |
| C. PROJECTS LESS THAN \$500K/SYSTEMS PACKAGE | A | | | VAR | \$ 204 | VAR | \$ 158 | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTALS: | | | | | \$14,239 | | \$11,034 | | \$11,021 |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|------------------|---|---|------------|------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| 1. ELECTRICAL PACKAGE | | | | | | | | | |
| A. TRANSCONDUCTANCE AMPLIFIER | | | | | | | | | |
| FY97 | 49 | 19 | HQ AFMC/AFMETCAL | OPT/FFP [1] | CLARKE-HESS NEW YOR CITY, NY | AUG 97 | SEP 98 | | |
| B. DIGITAL OSCILLOSCOPE | | | | | | | | | |
| FY97 | 51 | 32 | HQ AFMC/AFMETCAL | OPT/FFP [2] | TEKTRONIX BEAVERTON, OR | JAN 97 | APR 97 | | |
| C. SOURCE FOR CALIBRATION OF IFF/TACAN TEST SETS (SCITTS) | | | | | | | | | |
| FY97 | 90 | 38 | HQ AFMC/AFMETCAL | OPT/FFP [3] | SIERRACOM HOPKINTON, MA | AUG 97 | SEP 99 | | |
| D. HIGH POWER HIGH FREQUENCY AMPLIFIER SYSTEM | | | | | | | | | |
| FY98 | 6 | 422 | HQ AFMC/AFMETCAL | OPT/FFP [4] | POWER SYSTEMS TECHNOLOGY MELVILLE, NY | NOV 97 | MAR 98 | | |
| E. HIGH POWER MEDIUM FREQUENCY AMPLIFIER SYSTEMS | | | | | | | | | |
| FY98 | 11 | 248 | HQ AFMC/AFMETCAL | OPT/FFP [4] | POWER SYSTEMS TECHNOLOGY MELVILLE, NY | NOV 97 | MAY 98 | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|---|------|-----------|------------------|------------------------|---------------------------------------|------------|------------------------|-----------------|----------------------|
| F. LOW POWER MEDIUM FREQUENCY AMPLIFIER SYSTEMS | | | | | | | | | |
| FY97 | 11 | 96.7 | HQ AFMC/AFMETCAL | OPT/FFP [4] | POWER SYSTEMS TECHNOLOGY MELVILLE, NY | AUG 97 | MAY 98 | | |
| G. ILS/MODULATION METER | | | | | | | | | |
| FY98 | 40 | 18 | HQ AFMC/AFMETCAL | C/FFP | TEKTRONIX BEAVERTON, OR | NOV 97 | MAY 98 | | |
| FY99 | 20 | 18 | HQ AFMC/AFMETCAL | OPT/FFP [5] | TEKTRONIX BEAVERTON, OR | JAN 99 | OCT 99 | YES | |
| H. COAXIAL POWER MEASUREMENT SYSTEM | | | | | | | | | |
| FY99 | 44 | 12.5 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | JUL 99 | FEB 00 | NO | MAR 99 |
| I. AUTOMATED RESISTANCE SYSTEMS | | | | | | | | | |
| FY99 | 24 | 60 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | MAR 99 |
| J. PHASE NOISE TRANSFER SYSTEM | | | | | | | | | |
| FY99 | 10 | 55 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | MAY 99 | FEB 00 | NO | MAR 99 |
| K. METER CALIBRATOR | | | | | | | | | |
| FY99 | 36 | 26 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | JUN 99 | JAN 00 | NO | APR 99 |
| L. ATTENUATION MEASUREMENT RECEIVER | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|------------------|---|---------------------------------|------------|------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY99 | 13 | 118 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | AUG 99 | MAR 00 | NO | JUN 99 |
| M. PROJECTS LESS THAN \$500K/ELECTRICAL PKG | | | | | | | | | |
| FY97 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY98 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY99 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | YES | |
| 2. MECHANICAL PACKAGE | | | | | | | | | |
| A. PORTABLE PRESSURE CALIBRATOR | | | | | | | | | |
| FY97 | 110 | 13.4 | HQ AFMC/AFMETCAL | OPT/FFP [6] | D.H. INSTRUMENTS PHOENIX, AZ | MAR 97 | JAN 98 | | |
| B. FLOW CALIBRATION SYSTEM | | | | | | | | | |
| FY97 | 53 | 12 | HQ AFMC/AFMETCAL | OPT/FFP [7] | FLOW DYNAMICS PHOENIX, AZ | SEP 97 | JUL 98 | | |
| C. AF75E VIBRATION CALIBRATION | | | | | | | | | |
| FY97 | 30 | 25 | HQ AFMC/AFMETCAL | C/FFP | MB DYNAMICS BEDFORD HEIGHTS, OH | AUG 97 | OCT 97 | | |
| D. HYD. PRESSURE CONTR. | | | | | | | | | |
| FY99 | 30 | 34.5 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | JUL 99 | JAN 00 | NO | MAR 98 |
| E. PROJECTS LESS THAN \$500K/MECHANICAL PACKAGE | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|------------------|---|---|------------|------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY97 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY98 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY99 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | YES | |
| 3. SYSTEMS PACKAGE | | | | | | | | | |
| A. PATEC LOCAL OSCILLATOR | | | | | | | | | |
| FY97 | 100 | 21.4 | HQ AFMC/AFMETCAL | MIPR/OPT/ FFP [8] | NAVY WILTRON CORP MORGAN HILL, CA | FEB 97 | APR 98 | | |
| FY98 | 112 | 21.4 | HQ AFMC/AFMETCAL | MIPR/OPT/ FFP [8] | NAVY WILTRON CORP MORGAN HILL, CA | JAN 98 | JUL 98 | | |
| B. PORTABLE AUTOMATIC TEST EQUIPMENT CALIBRATOR | | | | | | | | | |
| FY99 | 2 | 270 | HQ AFMC/AFMETCAL | C/FFP | UNKNOWN | MAY 99 | OCT 99 | NO | MAR 98 |
| C. PROJECTS LESS THAN \$500K/SYSTEMS PACKAGE | | | | | | | | | |
| FY97 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY98 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| REMARKS: | | | | | | | | | |
| 1. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO CLARKE-HESS IN SEP 96. 2. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO TEKTRONIX IN SEP 96. 3. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO SIERRACOM IN NOV 95. 4. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO POWER SYSTEMS TECHNOLOGY IN JAN 96. 5. OPTION TO FY98 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO TEKTRONIX IN NOV 97. 6. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO D.H. INSTRUMENTS IN FEB 96. | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|------|-----------|-----------------|--|-------------------------|------------|-------------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| 7. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO FLOW DYNAMICS IN AUG 96. | | | | | | | | | |
| 8. OPTION TO FY96 COMPETITIVE FIRM FIXED PRICE CONTRACT AWARDED TO WILTRON IN AUG 96. | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$1,293 | \$1,099 | \$1,064 | \$1,071 | \$1,766 | \$1,767 | \$1,830 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Primary Standards Laboratory Package consists of measurement standards required by the Air Force Primary Standards Laboratory (AFPSL). These standards and equipment enable the AFPSL to maintain a disciplined system of measurement control to assure standardized calibration of all precision measurement equipment at Precision Measurement Equipment Laboratories (PMELs) which in turn support aircraft, missiles and ground communications and space systems.</p> <p>2. The AFPSL supports all Air Force PMELs by providing the master calibration capability traceable to the National Institute of Standards and Technology (NIST), as well as specialized test and calibration support needed for Air Force Research and Development . Measurement standards and auxiliary measurement equipment are grouped in three packages, the: (a) Electrical Package, (b) Mechanical Package, and (c) Systems Package.</p> <p>(a) The Electrical Package includes equipment to measure electrical units such as alternating current (AC) and direct current (DC) volts; resistance, and precise time and frequency; microwave/millimeter wave; radio frequency (RF) power, modulation, and phase noise; photonics/nucleonics quantities such as fiber optic power, spectral radiance, infrared thermometry; and laser power.</p> <p>(b) The Mechanical Package includes equipment to measure pressure, force, flow and vibration, and dimensional quantities such as length, flatness, and angle.</p> <p>(c) The Systems Package includes Automatic Test Equipment (ATE) equipment used in research and development projects.</p> <p>3. Although the AFPSL calibration services and the generation of calibration technical orders was privatized, funding for new and enhanced calibration standards equipment will remain an Air Force responsibility. Management of the Air Force Metrology and Calibration (AFMETCAL) Program remains an Air Force organic program. Air Force responsibilities include the identification and development of Air Force metrology and calibration requirements, calibration procedures development and management, and budgeting and acquisition of calibration standards. The privatization contractor will use Air Force Government Furnished Equipment (GFE). As the Air Force places more reliance on high technology weapons systems for our national security, the need for accurate and precise measurements becomes increasingly important. The accuracy, precision, and safety of Air Force systems are all traced back to the measurement standards of the AFPSL.</p> | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE |
|---|--|

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|---|------|-----------|------------------|------------------------|-------------------------|------------|------------------------|-----------------|----------------------|
| A. ELECTRICAL PACKAGE | | | | | | | | | |
| ITEMS LESS THAN \$500K/ELECTRICAL PACKAGE | | | | | | | | | |
| FY97 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY98 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY99 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | YES | |
| B. MECHANICAL PACKAGE | | | | | | | | | |
| ITEMS LESS THAN \$500K/MECHANICAL PACKAGE | | | | | | | | | |
| FY97 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY98 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | | |
| FY99 | VAR | VAR | HQ AFMC/AFMETCAL | C/FFP | MULT | MULT | MULT | YES | |
| C. SYSTEMS PACKAGE | | | | | | | | | |
| ITEMS LESS THAN \$500K/SYSTEMS PACKAGE | | | | | | | | | |
| FY99 | VAR | VAR | HQ AFMC/AFMETCAL | C/FP | MULT | MULT | MULT | YES | |

REMARKS:
THERE ARE MULTIPLE AWARD AND DELIVERY DATES ASSOCIATED WITH THE EXECUTION OF PRIMARY STANDARDS LABORATORY PACKAGE EQUIPMENT. EXAMPLES OF CONTRACTORS ASSOCIATED WITH THIS PROCUREMENT ARE: TEKTRONIX, BEAVERTON, OR; POWER SYSTEMS TECHNOLOGY, MELVILLE, NY; CLARKE-HESS, NEW YORK CITY, NY; AND FLOW DYNAMICS, PHOENIX, AZ.

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (TEST EQUIPMENT) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$12,557 | \$7,564 | \$6,706 | \$9,250 | \$8,946 | \$17,391 | \$15,722 |
| <p>DESCRIPTION:</p> <p>1. This program includes hundreds of test and measurement equipment items used throughout the Air Force. The equipment is used in Precision Measurement Equipment Laboratories (PMELs), Avionics Integrated Support Facilities (AISFs), Automated Test Support Facilities, Centralized Radio Shops, Radio/Radar Repair Shops, and Maintenance Shops. This equipment is also used to calibrate aircraft Avionics Intermediate Shop equipment. Failure to procure this equipment will inhibit performance of detailed analysis investigations; will impair the maintenance, repair and calibration of state-of-the-art measurement devices leading to increased avionics and communications equipment downtime; and may result in impairment of safety of flight as well as grounding of aircraft with direct impact on Air Force missions.</p> <p>2. There are approximately 7,500 individual test items procured in this line. FY99 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items requested in FY99 are identified on the following P-40a.</p> | | | | | | | | |

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| | P-1 ITEM NO: 80 | | PAGE NO: 13 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: NIGHT VISION GOGGLES |
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| | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|
| QUANTITY | | | | | | | |
| COST (in thousands) | \$5,997 | \$3,630 | \$8,118 | \$2,800 | \$2,861 | \$3,369 | \$3,866 |

DESCRIPTION:

1. Modern warfare has led to an increase in airborne combat under the cover of darkness. Night missions include ground operations, including preparation of the aircraft for takeoff, takeoffs and landings in complete darkness, lights-off air refueling, and visual identification of enemy targets hidden under the night sky. Night Vision Goggles (NVGs) provide the capability to see in night/low visibility conditions, are essential for combat rescue and special operations missions, and reduce the possibility of mid-air collisions during combat/non-combat missions. The goggles are helmet-mounted, battery and/or aircraft powered, and weigh approximately 12 to 30 ounces. There are two versions of the NVG: aircrew goggles used by pilots and groundcrew goggles used by security police in air defense, counter-narcotics and anti-terrorist operations. Lack of NVG equipment in an operational situation gives a decisive advantage to the enemy who may also be likely to use this equipment.

2. The following aircrew and groundcrew goggles are being procured with FY97 - FY99 funding.

a. AN/AVS-6 Aircrew Goggle. These aircrew goggles are specifically designed for aircrews to permit night flying and target recognition. They provide a "look under" capability for the pilot to monitor cockpit instruments. These units are used primarily by Air Force special operations forces, some MH-60 helicopter rescue forces, some bomber/tanker units and a limited number of F-15 fighter units. Aircrew goggles are binocular. FY97 funding procures 40 and completes procurement of these goggles.

b. AN/PVS-7D Groundcrew Goggle. These groundcrew goggles are primarily used by security police in conducting air base defense, counter-narcotics and anti-terrorist operations. The units are also used by the base recovery after-attack teams and by some non-cockpit aircrew members. The goggles are monocular with a third-generation image intensifier. FY97-99 funding procures 73, 110 and 74 goggles respectively.

c. F-4949 Aircrew Goggle. The F-4949 night vision goggles provide aircraft and ground personnel with the capability to see the horizon, terrain features and enemy ground fire as well as reducing the potential for air-to-ground fratricide and possible mid-air collisions during night operations. The goggles are helmet-mounted and weigh approximately 28 ounces. The F-4949 goggles are used by Air Combat Command, Air Mobility Command, Air Education and Training Command, United States Air Forces Europe, Pacific Air Force, Air Force Space Command, Air Force Special Operations Command, the Air National Guard and Air Force Reserve. FY97-99 funding will procure 787, 224 and 43 goggles respectively.

d. AN/AVS-8(V)2 Aircrew Goggle. This new NVG provides aircrews with the capability to see the horizon, terrain features and enemy ground fire. It reduces the potential for air-to-ground fratricide and possible mid-air collisions during night operations. This NVG is a helmet-mounted device that employs a 45 degree field view improving NVG capabilities. It is 30 percent lighter in weight than its counterpart F-4949 and AN/AVS-6 goggles. Furthermore, it utilizes a gated power supply that makes the goggle less susceptible to system shutdown during bomb blast, urban lighting conditions, etc. AN/AVS-8(2) will be utilized by Air Mobility Command aircrews to fulfill their requirement for a lighter, more capable NVG. FY98-99 funding procures 40 and 770 AN/AVS-8

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| | P-1 ITEM NO: 81 | | PAGE NO: 15 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: NIGHT VISION GOGGLES | |
| <p>goggles respectively.</p> <p>Associated R&D funds are through Human Systems Center (HSC) at Brooks AFB, TX. The purpose of the R&D program is to engineer and field the first US ejection compatible image intensifying device for ejection seat aircraft as well as to provide an improved lightweight night vision goggle capable of supporting helicopters and transports for long duration missions. The acquisition strategy called for evaluating two contractors with different approaches to translating the intensified image to the eyes. The Type I (direct view) and Type II (combiner lens arrangement) systems both completed the design phase and subsequent down-select evaluation. The direct view system was selected and is continuing in the next phase of the program, which is development, test and evaluation (DT&E). Considerations include safe head center-of-gravity positioning, neck strength of men and women, timing of release of the device prior to ejection, and subsequent travel of the device when wind blast effects occur. The current EMD (Engineering & Manufacturing Development) contract was awarded 30 June 1996. Combined IOT&E (initial operational test and evaluation) and OT&E (operational test and evaluation) were completed in August 1997. DT&E was completed in October 1997. Milestone III production approval is scheduled for March 1998. Reference PE 64706F Life Support Systems of the Air Force Descriptive Summaries.</p> <p>e. Test Set, Infinity Focus. NVGs require an operational checkout prior to flying. The infinity focus test set is a portable instrument which allows proper evaluation and adjustment of all goggle parameters to be done quickly and accurately. FY97-99 funding procures 39,134 and 157 test sets respectively.</p> <p>f. Test Set, Infrared Viewer. The ANV-126 NVG Test Set is a portable instrument for evaluating the performance of most goggles currently in service. The Test Set is required to accomplish the evaluation and critical alignments that properly "tune" the goggles. FY98-99 funding procures 28 and 30 test sets respectively.</p> | | |

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| | P-1 ITEM NO: 81 | | PAGE NO: 16 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: NIGHT VISION GOGGLES |
|---|--|

| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--------------------------------|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. AIRCREW GOGGLE | | | | | | (258) | | | | | | | |
| A. AN/AVS-6 | A | | | | 40 | 6,125 | 245 | | | | | | |
| B. ENGINEERING SUPPORT | | | | | | | 13 | | | | | | |
| 2. GROUNDCREW GOGGLE | | | | | | | (188) | | | (314) | | (211) | |
| A. AN/PVS-7D | A | | | | 73 | 2,370 | 173 | 110 | 2,640 | 290 | 74 | 2,640 | 195 |
| B. ENGINEERING SUPPORT | | | | | | | 15 | | | 24 | | | 16 |
| 3. AIRCREW GOGGLE | | | | | | | (5,345) | | | (1,507) | | (281) | |
| A. F-4949 | A | | | | 618 | 6,206 | 3,835 | 224 | 6,206 | 1,390 | 43 | 5,791 | 249 |
| A. F-4949 | A | | | | 80 | 6,976 | 558 | | | | | | |
| A. F-4949 | A | | | | 89 | 6,206 | 552 | | | | | | |
| B. ENGINEERING SUPPORT | | | | | | | 400 | | | 117 | | | 32 |
| 4. AIRCREW GOGGLE | | | | | | | | | | (496) | | (6,099) | |
| AN/AVS-8(V)2 | B | | | | | | | 40 | 12,500 | 496 | 770 | 7,921 | 6,099 |
| 5. TEST SET, INFINITY FOCUS | | | | | | | (206) | | | (666) | | (803) | |
| A. NSN 6625-01-431-8615CX | A | | | | 34 | 5,150 | 175 | 118 | 4,895 | 578 | 157 | 5,115 | 803 |
| A. NSN 6625-01-431-8615CX | A | | | | 5 | 6,129 | 31 | 16 | 5,500 | 88 | | | |
| 6. TEST SET, INFRARED VIEWER | | | | | | | | | | (647) | | (724) | |
| A. 6625-01-374-9681CX | A | | | | | | | 28 | 23,100 | 647 | 30 | 24,140 | 724 |
| TOTALS | | | | | | | 5,997 | | | 3,630 | | 8,118 | |

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| | P-1 ITEM NO: 81 | | PAGE NO: 17 | |
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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | | P-1 NOMENCLATURE: NIGHT VISION GOGGLES | | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| REMARKS: UNIT COSTS ARE IN ACTUAL DOLLARS VERSUS THOUSANDS OF DOLLARS. | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|-------------|------------------|------------------------|--|--------------------------------|-------------------|-------------------------------|------------------------|-----------------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: NIGHT VISION GOGGLES | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| 1. AN/AVS-6 AIRCREW GOGGLE | | | | | | | | | | |
| FY97 | 40 | 6,125 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | MAR 97 | SEP 97 | | | |
| 2. AN/PVS-7D GROUNDCREW GOGGLE | | | | | | | | | | |
| FY97 | 73 | 2,370 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | MAR 97 | NOV 97 | | | |
| FY98 | 110 | 2,640 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | MAR 98 | FEB 01 | YES | | |
| FY99 | 74 | 2,640 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | APR 99 | JUL 01 | YES | | |
| 3. F-4949 AIRCREW GOGGLE | | | | | | | | | | |
| FY97 | 618[1] | 6,206 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | APR 97 | JAN 98 | | | |
| FY97 | 80[1] | 6,976 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | APR 97 | OCT 97 | | | |
| FY97 | 89[1] | 6,206 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | APR 98 | APR99 | YES | | |
| FY98 | 224 | 6,206 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | APR 98 | FEB 99 | YES | | |
| FY99 | 43 | 5,791 | AFMC/WR-ALC | MIPR/OPT/FFP | ARMY/CECOM ITT/ROANOKE, VA | APR 99 | MAR 00 | YES | | |
| 4. AN/AVS-8(V)2 AIRCREW GOGGLE | | | | | | | | | | |
| FY98 | 40 | 12,500 | AFMC/HSC | OPT/FFP [2] | ITT ROANOKE, VA | MAR 98 | OCT98 | YES | | |
| FY99 | 770 | 7,921 | AFMC/WR-ALC | OPT/FFP [2] | ITT ROANOKE, VA | JAN 99 | OCT 99 | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: NIGHT VISION GOGGLES |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|------------------------------|------|-----------|-----------------|------------------------|-----------------------------|------------|------------------------|-----------------|----------------------|
| 5. TEST SET, INFINITY FOCUS | | | | | | | | | |
| NSN 6625-01-431-8615CX | | | | | | | | | |
| FY97 | 34 | 5,150 | AFMC/WR-ALC | SS/IDIQ` | HOFFMAN MFG STANFORD, CT | JUL 97 | DEC 97 | | |
| FY97 | 5 | 6,129 | AFMC/WR-ALC | SS/IDIQ | HOFFMAN MFG STANFORD, CT | SEP 97 | FEB 98 | | |
| FY98 | 118 | 4,895 | AFMC/WR-ALC | SS/IDIQ | HOFFMAN MFG STANFORD, CT | DEC 97 | APR 98 | | |
| FY98 | 16 | 5,500 | AFMC/WR-ALC | SS/IDIQ | HOFFMAN MFG STANFORD, CT | DEC 97 | AUG 98 | | |
| FY99 | 157 | 5,115 | AFMC/WR-ALC | SS/IDIQ | HOFFMAN MFG STANFORD,CT | DEC 98 | APR 99 | YES | |
| | | | | | | | | | |
| 6. TEST SET, INFRARED VIEWER | | | | | | | | | |
| NSN 6625-01-374-9681CX | | | | | | | | | |
| FY98 | 28 | 23,100 | AFMC/WR-ALC | SS/IDIQ | HOFFMAN MFG STANFORD, CT | DEC 97 | APR 98 | | |
| FY99 | 30 | 24,140 | AFMC/WR-ALC | SS/IDIQ | HOFFMAN MFG STANFORD, CT | DEC 98 | APR 99 | YES | |

REMARKS:
 UNIT COSTS ARE IN ACTUAL DOLLARS VERSUS THOUSANDS OF DOLLARS
 1. QTY OF 80 OFF BASIC CONTRACT AT UNIT COST OF \$6,976; REMAINING FY97 QTYS OFF OPTION AT UNIT COST OF \$6,206.
 2. PRODUCTION OPTION TO R&D CONTRACT AWARDED TO ITT, ROANOKE, VA. HIGHER UNIT COST FOR FIRST 40 PRODUCTION ARTICLES.

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: NIGHT VISION GOGGLES (AN/PVS-7D) | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 10,683 | 10,905 | 11,008 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 172 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 73 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 110 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 74 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (- 23) | (- 7) | (- 8) | |
| END OF YEAR ASSET POSITION | 10,905 | 11,008 | 11,074 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | | VEH AUGMENT | | |
| OTHER | 14,319 | | | |
| TOTAL INVENTORY OBJECTIVE | 14,319 | | | |
| REMARKS: | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: NIGHT VISION GOGGLES (AN/AVS-8(V)2) | | |
| ASSET DYNAMICS (BY FDP): BEGINNING ASSET POSITION (As of 31 Mar 97) DELIVERIES FROM ALL PRIOR YEAR FUNDING QUANTITIES PROCURED WITH FY97 FUNDING QUANTITIES PROCURED WITH FY98 FUNDING QUANTITIES PROCURED WITH FY99 FUNDING TEST/TRAINING USAGE DISPOSALS END OF YEAR ASSET POSITION | FY 1997 | FY 1998 | FY 1999 | |
| | 0 | 0 | 40 | |
| | 0 | | | |
| | 0 | 40 | | |
| | | | 770 | |
| | 0 | 40 | 810 | |
| INVENTORY OBJECTIVE: PEACETIME PIPELINE/STOCK LEVEL PEACETIME STATIC LEVEL WRM OTHER TOTAL INVENTORY OBJECTIVE | 1,166 1,166 | VEH ELIGIBLE: BY1 REPLACE BY2 REPLACE VEH AUGMENT | | |
| REMARKS: | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (PERSONAL SAFETY AND RESCUE EQUIPMENT) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$6,093 | \$3,429 | \$3,528 | \$3,559 | \$3,623 | \$3,504 | \$3,588 |
| <p>DESCRIPTION:</p> <p>1. This program contains numerous items of safety and rescue equipment used throughout the Air Force for protection of Air Force personnel, equipment and facilities. Typical items are anti-exposure coveralls, parachutes, life rafts, life preservers, and toxic indicators. Also included are deployable fire protector systems which augment normal fire-fighting equipment in a wartime environment by protecting aircraft during hot integrated combat turns, and providing limited quick reaction protection for high value facilities and equipment during water outages. Personal safety and rescue equipment is essential for the safety, rescue and protection of all Air Force resources.</p> <p>2. FY99 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items requested for procurement in FY99 are identified on the following P-40a.</p> | | | | | | | | |

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| | P-1 ITEM NO: 84 | | PAGE NO: 27 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$8,866 | \$10,917 | \$14,516 | \$15,320 | \$15,118 | \$14,277 | \$14,501 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Mechanized Material Handling Equipment P-1 line provides funding for Mechanized Material Handling Systems (MMHS), Storage Aids Systems (SAS), and Automated Information Technology (AIT) projects. MMHS/SAS programs provide bases worldwide with automated and static equipment for storing, receiving, and shipping material. MMHS/SAS equipment involves the design and acquisition of mechanized and non-automated materials handling systems and storage aids systems for all Air Force supply and transportation facilities. Supply systems generally include equipment such as receiving-storage-distribution systems (RSDS), automated guided vehicle systems (AGVS), high density storage systems (HDSS), small parts handling systems (SPHS), carousel systems, conveyor systems, mezzanines, and a variety of racks, bin shelving, and modular cabinets. Transportation systems generally include equipment such as aircraft passenger loading bridges and inbound/outbound (IB/OB) baggage conveyor systems for passenger terminals, heavy duty freight handling conveyors, pallet build-up-breakdown stations, elevating transfer vehicles, cargo storage/retrieval rack structures, and overhead bridge cranes for Air Freight Terminal (AFT) Systems; roller conveyor, cranes, and hoists for Aerial Delivery Facilities (ADF); and a variety of conveyor systems with associated process control systems for Air Mail Terminals (AMT). Adequately equipped facilities are essential to the storage and handling of weapons systems components and the processing of personnel, baggage, mail and freight in a manner which reduces the pipeline time and improves Air Force capability to respond to crises and threats wherever they occur in the world. MMHS/SAS equipment increases the productivity of Air Force support personnel, enhances management control of assets, reduces multiple handling of logistical materials, increases the flexibility at a minimum investment cost, enhances safe operations, reduces losses due to damage of materials in transport or storage, and reduces congestion and delays in air terminals.</p> <p>2. AIT is a collection of enabling technologies including linear and two-dimensional bar codes, radio frequency identification (RFID), smart cards, memory cards, laser cards, touch memory, voice and biometrics identification. These technologies provide timely and accurate automatic capture, aggregation and transfer of data to management information systems with minimal human involvement. Project funding enables migration toward compatibility of Air Force and industry standards in the core areas of supply, transportation and maintenance as well as weaving commercial AIT business practices and standards into the Air Force logistics infrastructure.</p> <p>3. MMHS/SAS/AIT equipment by Major Command and individual project are listed on the following P-40a and P-5a budget formats.</p> | | | | | | | | |

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| | P-1 ITEM NO: 85 | | PAGE NO: 29 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| 1. AIR COMBAT COMMAND | | | | | | | | | |
| MISC SAS | | | | | | | | | |
| FY97 | | 1423 | MULT [1] | C/FFP | MULT [1] | SEP 97 | JAN 98 | | |
| FY98 | | 650 | MULT [1] | C/FFP | MULT [1] | JUN 98 | DEC 98 | NO | MAR 98 |
| FY99 | | 625 | MULT [1] | C/FFP | MULT [1] | JUN 99 | DEC 99 | NO | NOV 98 |
| 2. AIR EDUCATION & TRAINING COMMAND | | | | | | | | | |
| SHEPPARD AFB, TX RS/DS MCP VNVP902005 | | | | | | | | | |
| FY98 | | 500 | HQ AFMC | C/FFP | UNKNOWN | JAN 99 | JUL 99 | NO | SEP 98 |
| TYNDALL AFB, FL SAS SUPPLY WHSE | | | | | | | | | |
| FY98 | | 400 | HQ AFMC | C/FFP | UNKNOWN | FEB 98 | JUL 98 | YES | |
| LACKLAND AFB, TX INITIAL ISSUE FLIGHT | | | | | | | | | |
| FY99 | | 250 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| LUKE AFB, AZ MOBILITY BAG STORAGE | | | | | | | | | |
| FY99 | | 250 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| 3. AF CIVIL ENGINEERING & SUPPORT ACTIVITY | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| KEESLER AFB, MS SAS CE LOG FACILITY FY97 | | 107 | HQ AFMC | C/FFP | GENESYS INC WINTER SPRINGS, FL | SEP 97 | FEB 98 | | |
| LANGLEY AFB, VA SAS MCP MUHJ943008 FY98 | | 300 | HQ AFMC | C/FFP | UNKNOWN | APR 98 | JUL 98 | YES | |
| MISC SAS FY98 | | 1352 | MULT [1] | CPFF | MULT [1] | JUN 98 | DEC 98 | NO | MAR 98 |
| ALTUS AFB, OK SAS CE MCP FY99 | | 212 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| ELLSWORTH AFB, SD STG AID SYSTEM FY99 | | 100 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| VANCE AFB, OK SAS CE IOE MCP FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| FAIRCHILD AFB, WA MMHS HOIST REPLACEMENT | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY99 | | 350 | HQ AFMC | C/FFP | UNKNOWN | MAY 99 | NOV 99 | NO | OCT 98 |
| 4. AIR FORCE MATERIEL COMMAND | | | | | | | | | |
| EDWARDS AFB, CA FLT TEST MCP 963506 | | | | | | | | | |
| FY97 | | 209 | HQ AFMC | C/FFP | INTEG. CONV ENGINEERING ORLANDO, FL | SEP 97 | FEB 98 | | |
| ROBINS AFB, GA RS/DS MOBAG BLDG 127 | | | | | | | | | |
| FY97 | | 74 | HQ AFMC | C/FFP | HORSLEY COMPANY OGDEN, UT | JUN 97 | DEC 97 | | |
| ROBINS AFB, GA RS/DS BLDG 364 | | | | | | | | | |
| FY97 | | 43 | HQ AFMC | C/FFP | HORSLEY COMPANY OGDEN, UT | AUG 97 | FEB 98 | | |
| DAVIS MONTHAN AFB, AZ AMARC BASE SUPPLY MCP FBNV973502 | | | | | | | | | |
| FY98 | | 500 | HQ AFMC | C/FFP | UNKNOWN | MAR 98 | SEP 98 | YES | |
| ROBINS AFB, GA AS/RS BLDG 640/645 | | | | | | | | | |
| FY98 | | 250 | HQ AFMC | C/FFP | UNKNOWN | APR 98 | NOV 98 | YES | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| ROBINS AFB, GA SPHS BLDG 301 | | | | | | | | | |
| FY98 | | 80 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | FEB 99 | NO | FEB 98 |
| ROBINS AFB, GA SPHS BLDG 125 | | | | | | | | | |
| FY98 | | 140 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | FEB 99 | NO | FEB 98 |
| EDWARDS AFB, CA SMALL PARTS STORE | | | | | | | | | |
| FY99 | | 300 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| EGLIN AFB, FL DOC LEVELERS BLDG 613 | | | | | | | | | |
| FY99 | | 80 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| HANSCOM AFB, MA RS/DS BASE SUPPLY | | | | | | | | | |
| FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| KIRTLAND AFB, NM MOBILITY BAG STG/ISU | | | | | | | | | |
| FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| ROBINS AFB, GA VERTICAL CAROUSEL SYS BLDG 640 | | | | | | | | | |
| FY99 | | 70 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| ROBINS AFB, GA BRIDGE CRANE SYSTEM | | | | | | | | | |
| FY99 | | 105 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| 5. AIR FORCE RESERVES | | | | | | | | | |
| YOUNGSTOWN AFR, OH MECH OF AIR DELIVERY FACILITY | | | | | | | | | |
| FY99 | | 100 | HQ AFMC | C/FFP | UNKNOWN | JUL 99 | JAN 00 | NO | JAN 99 |
| 6. AIR FORCE SPECIAL OPERATIONS COMMAND | | | | | | | | | |
| HURLBURT FLD, FL TRAFFIC MGT OFFICE | | | | | | | | | |
| FY99 | | 250 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| 7. AIR FORCE SPACE COMMAND | | | | | | | | | |
| CLEAR AFB, AK HIGH DENSITY STG SYS BLDG 250 | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY97 | | 481 | HQ AFMC | C/FFP | GENESYS, INC WINTER SPRINGS, FL | JUL 97 | JAN 98 | | |
| 8. AIR MOBILITY COMMAND | | | | | | | | | |
| MISC SAS - SQ OPS MCP | | | | | | | | | |
| FY97 | | 1600 | HQ AFMC | C/FFP | UNKNOWN [3] | AUG 98 | FEB 99 | NO | MAR 98 |
| FY98 | | 550 | HQ AFMC | C/FFP | UNKNOWN [3] | AUG 98 | MAR 99 | NO | MAR 98 |
| FY99 | | 700 | HQ AFMC | C/FFP | UNKNOWN [3] | JUN 99 | DEC 99 | NO | NOV 98 |
| MCGUIRE AFB, NY OVERHEAD CRANE MCP PRFL3110/1/2 | | | | | | | | | |
| FY97 | | 674 | HQ AFMC | C/FFP | UNKNOWN [3] | JUN 98 | JAN 00 | YES | |
| CHARLESTON AFB, SC AERIAL PORT/FLEET SERVICE | | | | | | | | | |
| FY97 | | 85 | HQ AFMC | C/FFP | CHARLESTON AFB, SC [4] TMH SUPPLY SELMA, TX | SEP 97 | MAR 98 | | |
| LAJES FLD, AZORES MECH OF AIR FREIGHT TERM. | | | | | | | | | |
| FY97 | | 103 | HQ AFMC | C/FFP | HORSLEY COMPANY OGDEN, UT | SEP 97 | APR 98 | | |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| ANDREWS AFB, MD INBOUND/OUTBOUND BAGGAGE MCAJXF95-1579 | | | | | | | | | |
| FY98 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 98 | DEC 98 | NO | FEB 98 |
| KADENA AB, JAPAN SAS FWD SUPPLY MCP LXEZ97-1320 | | | | | | | | | |
| FY98 | | 300 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | MAR 99 | NO | FEB 98 |
| ANDERSON AB, GUAM SAS FWD SUPPLY MCP AJJY97- 1107A/B | | | | | | | | | |
| FY98 | | 250 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | APR 99 | NO | MAR 98 |
| NORFOLK AFB, VA OUTBOUND BAGGAGE/LOADING BRIDGE | | | | | | | | | |
| FY98 | | 975 | HQ AFMC | C/MIPR/FFP | NAVY (UNKNOWN) | MAR 98 | AUG 98 | YES | |
| NAPLES NAS, ITALY INBOUND/OUTBOUND MILCON P-196 | | | | | | | | | |
| FY98 | | 300 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | NOV 98 | NO | JUN 98 |
| NAPLES NAS, ITALY MECH OF AIRFREIGHT TERM. MILCON P-112 | | | | | | | | | |
| FY98 | | 500 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | NOV 98 | NO | JUN 98 |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| RAMSTEIN AB, GERMANY INBOUND/OUTBOUND IOE P1K FY98 | | 300 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | FEB 99 | NO | FEB 98 |
| MACDILL AFB, FL CENTRALIZED LIFE SUPPORT MCP NYZR97318 FY98 | | 100 | HQ AFMC | C/MIPR/FFP | ARMY CORPS OF ENGINEERS (UNKNOWN) | APR 98 | AUG 98 | NO | FEB 98 |
| RAMSTEIN AB, GERMANY MECH OF AIR FREIGHT TERMINAL INBOUND FY99 | | 6000 | HQ AFMC | C/FFP | UNKNOWN | AUG 99 | MAR 00 | NO | OCT 98 |
| MCGUIRE AFB, NJ MECH OF AIR MOBILITY OPS GROUP MCP PTF983005 FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | OCT 98 |
| KADENA AB, JAPAN INBOUND/OUTBOUND USFJA343-05 BLDG 3409 FY99 | | 300 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | JAN 00 | NO | OCT 98 |
| YOKOTA AB, JAPAN INBOUND/OUTBOUND BAGGAGE CONVERSION FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | JAN 00 | NO | OCT 98 |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| YOKOTA AB, JAPAN STORAGE AID SYS FRWD SUPPLY LOCATION/ CONSOLIDATED TOOL KIT MC ZNRE97-1109 | | | | | | | | | |
| FY99 | | 300 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | JAN 00 | NO | OCT 98 |
| ANDREWS AFB, MD RECEIVING, STORAGE, AND DIST SYS WHSE 01A | | | | | | | | | |
| FY99 | | 100 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| KADENA AB, JAPAN PALLET LIFT AFT IOE USFJAF373-D5 | | | | | | | | | |
| FY99 | | 500 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | DEC 98 |
| TRAVIS AFB, CA STG AID SYS MOBILITY STORAGE BLDG P-1 | | | | | | | | | |
| FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| SCOTT AFB, IL STG AID SYS BLDG 4001 | | | | | | | | | |
| FY99 | | 100 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 |
| 9. AIR NATIONAL GUARD | | | | | | | | | |
| RICKENBACKER ANGB, OH RECEIVING, STORAGE AND DIST MCP NLZG939686 | | | | | | | | | |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY97 | | 165 | HQ AFMC | C/FFP | INTL AUTOMATED SYSTEM ST PAUL, MN | SEP 97 | MAR 98 | | | |
| LITTLE ROCK ANGB, AR SUPPLY MCP MKAK939897 | | | | | | | | | | |
| FY97 | | 271 | HQ AFMC | C/FFP | GENESYS, INC WINTER SPRINGS, FL | JUN 97 | NOV 97 | | | |
| PEORIA ANGB, IL AERIAL DELIVERY MCP JLQN929877 | | | | | | | | | | |
| FY97 | | 269 | HQ AFMC | C/FFP | GENESYS, INC WINTER SPRINGS, FL | JAN 97 | AUG 97 | | | |
| PHOENIX ANGB, AZ STORAGE AID SYS CITY FUNDED MCP A-953133 | | | | | | | | | | |
| FY97 | | 203 | HQ AFMC | C/FFP | GENESYS WINTER SPRINGS, FL | SEP 97 | FEB 98 | | | |
| SIOUX FALLS ANGB, SD RECEIVING, STORAGE AND DIST SYS MCP LUXC001389 | | | | | | | | | | |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY97 | | 201 | HQ AFMC | C/FFP | SIOUX FALLS ANGB HORSLEY COMPANY OGDEN,UT & GENESYS, INC WINTER SPRINGS, FL | MAY 97 | SEP 97 | | |
| BANGOR MAINE ANGB, ME STORAGE AID SYS | | | | | | | | | |
| FY97 | | 119 | HQ AFMC | C/FFP | GENESYS, INC WINTER SPRINGS, FL | SEP 97 | JAN 98 | | |
| MCGHEE TYSON ANGB, TN STORAGE AID SYSTEM | | | | | | | | | |
| FY97 | | 300 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | DEC 98 | NO | FEB 98 |
| DALLAS ANGB, TX SUPPLY STORAGE AID SYS MCP DDPF909506 | | | | | | | | | |
| FY98 | | 200 | HQ AFMC | C/FFP | UNKNOWN | APR 98 | SEP 98 | YES | |
| LINCOLN ANGB, NE RECEIVING, STORAGE AND DIST MCP NGCB919717 | | | | | | | | | |
| FY98 | | 250 | HQ AFMC | C/FFP | UNKNOWN | DEC 98 | JUL 99 | NO | JUN 98 |
| FT WAYNE AFGB, IN RECEIVING, STOAGE AND DIST SYS | | | | | | | | | |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY98 | | 250 | HQ AFMC | C/FFP | INTEG CONV ENGINEERING ORLANDO, FL | JAN 98 | AUG 98 | | | |
| OKLAHOMA ANGB, OK HIGH DENSITY STORAGE SYS SUPPLY MCP | | | | | | | | | | |
| FY98 | | 175 | HQ AFMC | C/FFP | UNKNOWN | FEB 98 | AUG 98 | YES | | |
| ILLINOIS ANGB, BELLEVILLE, IL SAS MCP VDYD95691 | | | | | | | | | | |
| FY99 | | 200 | HQ AFMC | C/FFP | UNKNOWN | AUG 99 | MAR 00 | NO | FEB 99 | |
| BUCKLEY ANGB, CO SAS TRAFFIC MGMT OFFICE | | | | | | | | | | |
| FY99 | | 131 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | DEC 99 | NO | NOV 98 | |
| 10. PACIFIC AIR FORCES | | | | | | | | | | |
| EIELSON AFB, AK MOBILITY STG & RECEIVING BLDG 1306 | | | | | | | | | | |
| FY97 | | 260 | HQ AFMC | C/FFP | HORSLEY COMPANY OGDEN, UT | AUG 97 | MAR 98 | | | |
| NAHA AIRPORT, JAPAN AIR MAIL TERMINAL | | | | | | | | | | |
| FY98 | | 190 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | FEB 99 | NO | MAR 98 | |

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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| YOKOTA AB, JAPAN AIR MAIL TERMINAL | | | | | | | | | |
| FY98 | | 190 | HQ AFMC | C/FFP | UNKNOWN | AUG 98 | FEB 99 | NO | MAR 98 |
| 11. US AIR FORCE ACADEMY | | | | | | | | | |
| COLORADO SPGS, CO MEZZANINE ARNOLD HALL | | | | | | | | | |
| FY97 | | 40 | HQ AFMC | C/FFP | A-LINE HANDLING SYSTEMS E. HARTFORD, CT | SEP 97 | FEB 98 | | |
| 12. US AIR FORCES EUROPE | | | | | | | | | |
| SPANGDAHLEM AB, GERMANY MOBILITY WHSE MCP VYHK043-5 | | | | | | | | | |
| FY97 | | 639 | HQ AFMC | C/FFP | GENESYS WINTER SPRINGS, FL | SEP 97 | MAR 98 | | |
| RAMSTEIN AB, GERMANY ELEC FORKLIFT/TIRE RACKS BSS/IEU BLDG 2127 | | | | | | | | | |
| FY99 | | 400 | HQ AFMC | C/FFP | UNKNOWN | JUN 99 | JAN 00 | NO | NOV 98 |
| 13. USAF-WIDE/AIT | | | | | | | | | |
| LANGLEY AFB, VA EGRESS AIT SYSTEM | | | | | | | | | |

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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY97 | | 500 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] CDO TECHNOLOGIES, DAYTON, OH | MAY 97 | SEP 97 | | |
| MCDILL AFB, FL AND BEALE AFB, CA MOBILITY BAG CONTROL CENTER | | | | | | | | | |
| FY97 | | 300 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] SUMARIA SYS, INC FAIRBORN, OH | MAY 97 | AUG 97 | | |
| HOLLOMAN AFB, NM BARE BASE INVENTORY SYS | | | | | | | | | |
| FY97 | | 600 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] LOGICON-SYSCON WILLIAMSBURG, VA | JUN 97 | NOV 97 | | |
| GUNTER ANNEX, AL ECI MANIFEST | | | | | | | | | |
| FY97 | | 161 | HQ AFMC | C/FFP | INTERMEC CORP EVERETT, WA | SEP 97 | DEC 97 | | |
| SHAW AFB, SC CARGO MOVEMENT OPERATIONS SYS | | | | | | | | | |
| FY97 | | 39 | HQ AFMC | C/FFP | INTERMEC CORP EVERETT, WA | APR 97 | JUL 97 | | |

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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| SUPPLY ASSET TRACKING SYSTEM (SATS) | | | | | | | | | |
| FY98 | | 350 | HQ AFMC | OPT/MIPR/FFP | FEDSIM [2] LOGICON-SYSCON WILLIAMSBURG, VA | FEB 98 | JUN 98 | YES | |
| SATS - RADIO FREQUENCY CARGO MOVEMENT OPERATING SYS (CMOS) INTERFACE | | | | | | | | | |
| FY98 | | 165 | HQ AFMC | OPT/MIPR/FFP | FEDSIM [2] LOGICON-SYSCON WILLIAMSBURG, VA | APR 98 | AUG 98 | NO | MAR 98 |
| SATS PHASE II | | | | | | | | | |
| FY98 | | 600 | HQ AFMC | OPT/MIPR/FFP | FEDSIM [2] LOGICON-SYSCON WILLIAMSBURG, VA | MAR 98 | JUN 98 | NO | FEB 98 |
| HOLLOMAN AFB, NM BARE BASE INVENTORY PHASE II | | | | | | | | | |
| FY98 | | 350 | HQ AFMC | OPT/MIPR/FFP | FEDSIM [2] LOGICON-SYSCON WILLIAMSBURG, VA | JUN 98 | SEP 98 | NO | APR 98 |
| ALL AMC BASES AMC 2 DIMENSIONAL SHIPPING LABELS | | | | | | | | | |
| FY98 | | 300 | HQ AFMC | OPT/MIPR/FFP | FEDSIM {2} SMARIA SYSTEMS INV FAIRBORN, OH | JUL 98 | OCT 98 | NO | MAY 98 |
| USAFA, COLORADO SPG, CO USAFA SMART CARD | | | | | | | | | |
| | | | | P-1 ITEM NO: 85 | | | PAGE NO: 45 | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY98 | | 250 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] (UNKNOWN) | JUN 98 | SEP 98 | NO | APR 98 | |
| USAFA, COLORADO SPG, CO USAFA SMART CARD EXPANSION | | | | | | | | | | |
| FY99 | | 400 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] (UNKNOWN) | MAR 99 | JUL 99 | NO | DEC 98 | |
| W-PAFB, OH HOSPITAL TRACKING SYSTEM | | | | | | | | | | |
| FY99 | | 400 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] (UNKNOWN) | MAY 99 | AUG 99 | NO | MAR 99 | |
| LACKLAND AFB, TX CRYPTO INVENTORY CONTROL SYSTEM | | | | | | | | | | |
| FY99 | | 393 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] (UNKNOWN) | APR 99 | JUL 99 | NO | FEB 99 | |
| HILL AFB, UT AND NELLIS AFB, NV TOOL CONTROL SYS PHASE II | | | | | | | | | | |
| FY99 | | 400 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] (UNKNOWN) | JUN 99 | SEP 99 | NO | MAY 99 | |
| W-PAFB, OH AND EGLIN AFB, FL AF DISTANT LEARNING CENTER | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------|-----------|-----------------|--|-------------------------|------------|-------------------------------|-----------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MECHANIZED MATERIAL HANDLING EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| FY99 | | 300 | HQ AFMC | C/MIPR/FFP | FEDSIM [2] (UNKNOWN) | JUL 99 | OCT 99 | NO | MAY 99 |
| | | | | | | | | | |
| | | | | | | | | | |
| REMARKS: | | | | | | | | | |
| <p>1. STORAGE AID SYSTEMS (SAS) FUNDING IS SENT TO VARIOUS MAJOR COMMAND CONTRACTING OFFICES FOR EXECUTION. DOLLARS REPRESENT TOTAL PROJECT COSTS. EXAMPLES OF CONTRACTORS ASSOCIATED WITH SAS PROJECTS ARE: SPACESAVER STORAGE, LAS CRUCES, NM; CARSON BROOKS, GLENDORA, CA; AND HORSLEY CO, OGDEN, UT. AWARD AND DELIVERY DATES REPRESENT THE DATE OF LAST AWARD AND DELIVERY.</p> <p>2. FEDSIM - FEDERAL SYSTEM INTEGRATION AND MANAGEMENT CENTER, FALLS CHURCH, VA.</p> <p>3. CONTRACT AWARD DELAYED BECAUSE OF HIGH COSTS FROM PROSPECTIVE BIDDERS. AFMC ENGINEERING REVIEW IN-PROCESS.</p> <p>4. HQ AFMC SENT FUNDING TO CHARLESTON AFB CONTRACTING OFFICE FOR EXECUTION. AWARD MADE TO TMH SUPPLY CO, SELMA, TEXAS.</p> | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE INDUSTRIAL SUPPORT EQUIPMENT) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$5,513 | \$3,980 | \$4,124 | \$6,533 | \$6,741 | \$9,382 | \$12,174 |
| <p>DESCRIPTION:</p> <p>1. This program provides a wide range of industrial equipment for base-level industrial shops used in support of aircraft, communications, welding shops, electronic components, and paint shops. This equipment is used in the repair of engines, hydraulic/pneudraulic systems, landing gear, airframe components, and instruments. Also included in this program is state-of-the-art equipment required to upgrade and replace the antiquated metalworking equipment in Air Force base maintenance shops. As this type of equipment reaches its life expectancy, it must be replaced to prevent work stoppage in the repair and manufacture of critical weapon system components. Replacement of this type of equipment is a continual, proactive process necessary to prevent out-of-tolerance conditions that lead to excessive downtimes for the equipment and the components they repair.</p> <p>2. FY99 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items requested in FY99 are identified on the following P-40a.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: GENERATORS, MOBILE-ELECTRIC |
|---|---|

| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|--|--|---------|---------|---------|---------|---------|---------|---------|
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$ 474 | \$3,608 | \$1,411 | \$3,455 | \$2,346 | \$2,312 | \$2,396 |

DESCRIPTION:

1. Generators provide primary and/or utility power to alert hangars, communications systems, radar systems, field hospitals, control towers, maintenance shops, runway lighting, cold storage plants, sewage disposal systems, beacons, direction finding equipment, and any applications where primary and backup power is required.
2. The generator program includes funds for replacements as well as shortages and supports requirements for active as well as Air Reserve Component requirements. The current fleet of generators is over-age and nonsupportable, has high repair costs, is of a non-DoD standard design, and does not meet current user requirements. The average age of these generators exceeds projected life expectancy and repair is no longer economically feasible. Depot repair has been terminated for many older generators due to excessive repair costs and non-availability of parts.
3. Procurement of the DoD's standard family of Tactical Quiet Generators (TQG) introduces a new family of generators (sizes 5 through 200 kilowatt) into the Air Force inventory that will satisfy the following user requirements:
 - a. Reduced detection by threat forces (low operating noise and infrared suppression)
 - b. Improved mobility (lighter weight)
 - c. Improved reliability (low operating and support costs)
 - d. Improved survivability (high altitude electromagnetic pulse protection)
 - e. Single fuel on the battlefield (JP8)
4. The FY97-99 program funds three types of generators:
 - a. Power Plant, 60KW/400HZ (AN/MJQ-1632) NSN 6115-01-364-0157. This power plant system includes two 60 kilowatt, 400 hertz tactical quiet generators (TQGs) mounted on a 5-ton trailer. Each generator is capable of running eight hours without refueling and contains a fuel connection to use a remote source. This power plant will be used to support a wide array of command, control, communications, and intelligence equipment which are critical to the successful execution of an air campaign. This power plant is used by Air Combat Command (ACC) to power radar and ancillary equipment. These plants will also support the Pacific Air Forces (PACAF) Forward Air Control Post (FACP), Air Support Operations Center (ASOC) shelters and Adaptive Surface Interface Terminal ASIT) van. Stable reliable power is needed by the FACP's high power tactical radar to identify hostile intruder aircraft and to direct and

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: GENERATORS, MOBILE-ELECTRIC | |
| <p>control friendly air forces. These generators provide power to operate sensitive electronic equipment in all the ASOC shelters and provide environmental control for seasonal temperature extremes thus allowing deployed ASOC personnel to accomplish their mission as air liaison to the supported Army Corps as well as battlefield oversight for the whole close air support scenario. The 400 hertz power allows the ASIT van to downlink the overall air picture from an Airborne Warning and Control System (AWACS) aircraft for use by the air component commander. The 400 KW power generator will replace the current aging gas turbine power plants which are becoming unreliable. FY98 and 99 funds procure 15 and 16 power plants respectively. FY99 procurement is solely for Air National Guard requirements.</p> <p>b. Generator, 100KW/60HZ, NSN 6115-01-407-3770. This DoD standard liquid cooled generator set provides 100 kilowatts of power at 60 hertz for alert hangars, microwave test range support hospitals, runway lights, ground control approach backup, control towers and maintenance facilities supporting multiple aircraft. FY97 and 98 funds procure seven and 34 generators respectively. No FY99 funding requested.</p> <p>c. Generator, 200KW/60HZ, NSN 6115-01-410-7372. This tactical quiet generator provides 200 kilowatts of power at 60 hertz. Its applications include microwave test range support, control towers, communications, field hospitals, ground satellite terminals, water purification units and schools. This generator which is diesel engine driven, high-altitude electromagnetic pulse protected and noise suppressed is also used in cases of national disasters where power is required to immediately support relief and rescue efforts. FY97 and 98 funds procure six and 30 generators respectively. No FY99 funding requested.</p> | | |

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| | P-1 ITEM NO: 87 | | PAGE NO: 51 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | |
|--|------|-----------|-----------------|--|--------------------------------------|------------|------------------------|------------------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: GENERATORS, MOBILE-ELECTRIC | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| A. POWER PLANT, 60KW/400HZ (AN/MJQ-1632) | | | | | | | | | |
| FY95 | 12 | 81.1 | AFMC/SM-ALC | C/MIPR/FP | ARMY/ATCOM TOBYHANNA DEPOT, PA | DEC 94 | FEB 97 | | |
| FY98 | 15 | 86.4 | AFMC/SM-ALC | OPT/MIPR/ FP | ARMY/ATCOM TOBYHANNA DEPOT, PA | FEB 98 | NOV 98 | YES | |
| FY99 | 16 | 88.2 | AFMC/SM-ALC | OPT/MIPR FP | ARMY/ATCOM TOBYHANNA DEPOT, PA | FEB 99 | MAY 99 | YES | |
| B. GENERATOR, 100KW/60HZ | | | | | | | | | |
| FY95 | 2 | 32.0 | AFMC/SM-ALC | C/FP | KOHLER CORP KOHLER, WI | SEP 97 | FEB 98 | | |
| FY97 | 7 | 32.7 | AFMC/SM-ALC | OPT/FP | KOHLER CORP KOHLER, WI | SEP 97 | FEB 98 | | |
| FY98 | 34 | 34.0 | AFMC/SM-ALC | OPT/FP | KOHLER CORP KOHLER, WI | MAR 98 | AUG 98 | YES | |
| C. GENERATOR, 200KW/60HZ | | | | | | | | | |
| FY95 | 2 | 40.0 | AFMC/SM-ALC | C/FP | ONAN CORP FRIDLEY, MN | SEP 97 | DEC 97 | | |
| FY97 | 6 | 40.9 | AFMC/SM-ALC | OPT/FP | ONAN CORP FRIDLEY, MN | SEP 97 | DEC 97 | | |
| FY98 | 28 | 40.6 | AFMC/SM-ALC | OPT/FP | ONAN CORP FRIDLEY, MN | MAR 98 | JUN 98 | YES | |
| REMARKS: | | | | | | | | | |

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| | P-1 ITEM NO: 87 | | PAGE NO: 53 | |
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| PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P-21) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: POWER PLANT, 60KW/400HZ (AN/MJQ-1632) |
|---|---|

| ITEM/MANUFACTURER/ PROCUREMENT YEAR | SERV. | PROC. QTY. | ACCEP. PRIOR TO 1 OCT. | BAL DUE AS OF 1 OCT. | 1997 | CALENDAR 1998 | | | | | | | | | | | | CALENDAR 1999 | | | | | | | | | | | |
|---|-------|---------------|------------------------------|----------------------------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | | | FY98 | | | | | | | | | | | | FY99 | | | | | | | | | | | | |
| | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| A. POWER PLANT, 60KW/400HZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (FY95 | AF | 12 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY98 | AF | 15 | 0 | 15 | | | | | C | | | | | | | 15 | | | | | | | | | | | | | |
| FY99 | AF | 16 | 0 | 16 | | | | | | | | | | | | | | C | | | 16 | | | | | | | | |
| TOTALS | | 43 | 12 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | |
| ITEM/MANUFACTURER/ PROCUREMENT YEAR (repeat of items above) | SERV. | PROC. QTY. | ACCEP. PRIOR TO 1 OCT. | BAL DUE AS OF 1 OCT. | 1999 | CALENDAR 2000 | | | | | | | | | | | | CALENDAR 2001 | | | | | | | | | | | |
| | | | | | FY00 | | | | | | | | | | | | FY01 | | | | | | | | | | | | |
| | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| A. POWER PLANT, 60KW/400HZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (FY95 | AF | 12 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY98 | AF | 15 | 15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY99 | AF | 16 | 16 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | 43 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

| MANUFACTURER'S NAME AND LOCATION | PRODUCTION RATES | | | PROCUREMENT LEAD TIME | | | |
|-------------------------------------|------------------|-------|------|-----------------------|-------------|---------------|-------------|
| | MIN. SUST. | 1-8-5 | MAX. | ADMIN LEAD TIME | | MANUFACTURING | TOTAL AFTER |
| ARMY/ATCOM | 1 | | 25 | PRIOR TO 1 OCT | AFTER 1 OCT | PLT | 1 OCT. |
| TOBYHANNA DEPOT, PA | | | | INITIAL | | | 0 |
| | | | | REORDER | | | 0 |

REMARKS: DELIVERIES TO THE AIR FORCE DETERMINED BY THE ARMY DELIVERY SCHEDULE

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| | P-1 ITEM NO: 87 | | PAGE NO: 54 |
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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: POWER PLANT, 60KW/400HZ, AN/MJQ-1632 | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 12 | 12 | 27 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 0 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 0 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 15 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 16 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (0) | (0) | (0) | |
| END OF YEAR ASSET POSITION | 12 | 27 | 43 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | | VEH AUGMENT | | |
| OTHER | 103 | | | |
| TOTAL INVENTORY OBJECTIVE | 103 | | | |
| REMARKS: | | | | |

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|---|--|----------------|---------------|---|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: FLOODLIGHTS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$ 0 | \$6,196 | \$10,714 | \$13,350 | \$8,743 | \$6,907 | \$6,988 |
| DESCRIPTION: | | | | | | | | |
| <p>1. Floodlights are essential for performing night maintenance on aircraft, for loading and unloading aircraft cargo, and for emergency lighting. They are also required for perimeter defense, emergency disaster coverage, aircraft accident on-site investigations, lighting entry gate areas and perimeters of secured areas in support of security policy operations, and for rapid runway repairs.</p> <p>2. The current NF-2D Floodlight Cart was procured as early as 1960 and some of the units are still in the inventory. All currently fielded NF-2Ds have exceeded their useful service life which is approximately 12 years. Spare parts are no longer available through contractor sources for repair of the floodlight set. An attempt was made to replace the NF-2 Floodlight Cart in the early 1980s with a commercial item, Model TF-1. However, it was designed for use in lighting construction sites and was not compatible with the aircraft maintenance environment. After many attempts at aircraft maintenance compatibility, the Air Force concluded that the TF-1 floodlight could not support its current and future weapon systems.</p> <p>3. Procurement of the new FL-1D Floodlight will ensure continued support for weapon system maintenance. Weapon system maintenance performed at forward operating locations must have a lighting system that does not unnecessarily burden the deployment footprint or logistics support. Procuring the FL-1D will ensure that this support is available when needed in both the short and long term. The new floodlight set will consist of a tower for mounting two 1000 watt floodlights, power distribution equipment, a diesel engine-driven generator set, and metal storage space for protection/storage of the components and technical manuals. This new floodlight will be permanently mounted on a four-wheel trailer type chassis. FY97 funding procures three first article floodlights; FY98 procures 504 production units and FY99 will procure 857.</p> <p>4. Item Code: A.</p> <p>NOTE: FY97 dollars were appropriated in P-1 Line #89, Items Less Than \$2,000,000 (Electrical Equipment)</p> | | | | | | | | |

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| | P-1 ITEM NO: 88 | | PAGE NO: 56 | |
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| PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P-21) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: FL-1D FLOODLIGHT |
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| ITEM/MANUFACTURER/ PROCUREMENT YEAR | SERV. | PROC. QTY. | ACCEP. PRIOR TO 1 OCT. | BAL DUE AS OF 1 OCT. | CALENDAR 1998 | | | | | | | | | | | | CALENDAR 1999 | | | | | | | | | | | |
|--|-------|---------------|------------------------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | FY98 | | | | | | | | | | | | FY99 | | | | | | | | | | | |
| | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| FL-1D FLOODLIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY97 | AF | 3 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| FY98 | AF | 504 | 0 | 504 | | C | | | | | | | | | | | | | | | 80 | 80 | 80 | 150 | 114 | | | |
| FY99 | AF | 857 | 0 | 857 | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| FY98 | FMS | 32 | 0 | 32 | | | | | | | | | | | | | | | | | | | | | 32 | | | |
| TOTALS | | 1396 | 0 | 1396 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | | | |

| ITEM/MANUFACTURER/ PROCUREMENT YEAR (repeat of items above) | SERV. | PROC. QTY. | ACCEP. PRIOR TO 1 OCT. | BAL DUE AS OF 1 OCT. | CALENDAR 2000 | | | | | | | | | | | | CALENDAR 2001 | | | | | | | | | | | |
|---|-------|---------------|------------------------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | FY00 | | | | | | | | | | | | FY01 | | | | | | | | | | | |
| | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| FL-1D FLOODLIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY97 | AF | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FY98 | AF | 504 | 504 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FY99 | AF | 857 | 4 | 853 | 150 | 150 | 150 | 150 | 150 | 103 | | | | | | | | | | | | | | | | | | |
| FY98 | FMS | 32 | 32 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | 1396 | 543 | 853 | 150 | 150 | 150 | 150 | 150 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |

| MANUFACTURER'S NAME AND LOCATION | PRODUCTION RATES | | | PROCUREMENT LEAD TIME | | | |
|-------------------------------------|------------------|-------|------|-----------------------|-------------|---------------|-------------|
| | MIN. SUST. | 1-8-5 | MAX. | ADMIN LEAD TIME | | MANUFACTURING | TOTAL AFTER |
| UNICOR | 1 | | 150 | PRIOR TO 1 OCT | AFTER 1 OCT | PLT | 1 OCT. |
| BIG SPRINGS, TEXAS | | | | INITIAL | 1 | 18 | 19 |
| | | | | REORDER | 1 | 10 | 11 |

REMARKS: SEP 98 - NOV 98: FIRST ARTICLE TEST AND ACCEPTANCE ON THREE FY97 FLOODLIGHTS.
 INITIAL: FY98
 REORDER: FY99

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| | P-1 ITEM NO: 88 | | PAGE NO: 58 |
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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: FLOODLIGHTS | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 5,167 | 5,170 | 5,674 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 3 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | | 504 | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | | 857 | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | | | (- 463) | |
| END OF YEAR ASSET POSITION | 5,170 | 5,674 | 6,068 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 419 | VEH AUGMENT | | |
| OTHER | 5,649 | | | |
| TOTAL INVENTORY OBJECTIVE | 6,068 | | | |
| REMARKS: THE BEGINNING ASSET POSITION IS BASED ON THE NUMBER OF CURRENT NF-2D FLOODLIGHTS IN THE AF INVENTORY. FY97, 98 AND 99 QUANTITIES ARE PROCUREMENT OF THE NEW FL-1D FLOODLIGHTS. FY98 PROCUREMENT IS FOR INITIAL SHORTAGES. FY99 PROCUREMENT IS FOR BOTH SHORTAGES AS WELL AS REPLACEMENTS FOR OLD FLOODLIGHTS DISPOSALS. | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (ELECTRICAL EQUIPMENT) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$2,515 | \$3,878 | \$2,356 | \$4,183 | \$3,841 | \$3,714 | \$3,763 |
| <p>DESCRIPTION:</p> <p>1. This program includes electrical power generators, switches, transformers and controls, connectors and portable lighting equipment for power distribution for use throughout the Air Force. These items support communications systems, radar systems, aircraft maintenance shops, hospitals, maintenance shelters, civil engineering functions and test ranges, and are used for daily operations as well as contingencies, natural disasters and war reserve material. Lack of funding will not only affect the operational readiness capability of aircraft, communications and base support missions, but will also degrade implementation of DoD directives for fuel standardization and emissions control.</p> <p>2. FY99 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items requested for procurement in FY99 are identified on the following P-40a.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BASE PROCURED EQUIPMENT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$5,621 | \$6,700 | \$5,644 | \$12,915 | \$13,595 | \$ 921 | \$1,051 |
| DESCRIPTION: | | | | | | | | |
| <p>1. Bases and units throughout the Air Force require and are authorized equipment that must be acquired directly from General Services Administration (GSA), Defense Logistics Agency (DLA), one of the other services, or from commercial concerns. This results from federal policy to relieve the services of wholesale management of non-military and commercial items to reduce cost. Base Procured Equipment (BPE) provides funds for local procurement of equipment costing \$100,000 or more which is not centrally procured and managed. Equipment examples include roads and grounds maintenance equipment; vehicle maintenance shop equipment; vehicle corrosion control equipment; specialized tool kits and test equipment; civil engineering maintenance, electrical, and carpenter shop equipment; specialized laboratory equipment; kitchen and dining facilities equipment; printing plant equipment; air conditioning equipment; heating equipment; microfilm equipment; and copiers and duplicators.</p> <p>2. The equipment described above is needed for day-to-day maintenance and operation of bases, weapons and support systems and for support of both active and air reserve forces. The program supports installations at multiple major commands. Requirements and priorities are affected by assignment and conversion of new equipment; reorganizations; natural disasters; new operational methods to increase efficiency and safety; beddown of new weapon systems; and energy conservation initiatives.</p> <p>3. BPE resources programmed by Air Force major commands and/or field operating agencies are displayed on the following P-40A Budget Exhibit.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$15,196 | \$10,451 | \$8,703 | \$12,443 | \$14,350 | \$7,963 | \$6,020 |
| DESCRIPTION: | | | | | | | | |
| <p>1. Medical/Dental War Reserve Material (WRM) Equipment supports Air Force medical readiness and contingency requirements. Medical WRM allows the Air Force to rapidly deploy medical capability to forward operating locations. Adequate deployable medical capability is required for force protection. During the Cold War the Air Force had large hospitals throughout Europe ready to receive casualties during a conflict with Warsaw Pact countries. New doctrine requires the Air Force to maintain medical readiness assets in CONUS capable of being transported via cargo aircraft to any location in the world; and upon arrival, quickly set up, and be ready to treat casualties. Regular hospital equipment cannot be used; it is either too fragile, too heavy, or incompatible with operating in a hot, cold, humid or contaminated environment. The major objective is to keep Wounded in Action (WIA) personnel alive until definitive care can be provided, and return less critically injured personnel to their units as quickly as possible.</p> <p>2. The following WRM equipment items / projects are funded by this program:</p> <p>a. Chemically Hardened Air Transportable Hospital (CHATH) Multi-Component Equipment Project: As the research about Persian Gulf illnesses continues, the evidence is clear that even a small exposure to chemical and biological agents can cause great bodily harm. Soldiers and airmen in the field usually have some short warning about an incoming missile attack to don their gas mask and other protective gear. Wounded in Action (WIA) in a field air transportable hospital (ATH) may be unconscious, on a respirator, or otherwise unable to take protective measures. Medical personnel may also be involved in surgical procedures. The solution to caring for WIA is to protect the entire ATH by securing an airtight seal, hardened against chemical attacks. The CHATH is an Air Force field hospital consisting of an operating room, wards for 50 beds, a laboratory, and equipment necessary for resuscitative surgery, postoperative stabilization, support services, general medical care, dental care, and psychiatric care. The CHATH shelter is formed of sections of the Tent, Extendible, Modular, Personnel (TEMPER) in which a chemical/biological protective liner is installed and an over pressure environment is created. Prior year funding procured four airlocks and 30 liner sets. These airlocks allow the movement of medicine, food, water, and wastes in/out of the CHATH without compromising hospital cleanliness or compromising chemical/biological protection. The FY97, 98, and 99 funding procures the remaining components of the air handling system (plenums, vestibules, etc.) which are necessary to maintain the over pressure environment. Without them, the liners will fail and patients and staff will be vulnerable to chemical/biological attack. If funding is not received, patient care will be severely hampered or not available in, during, or after a chemical/biological attack.</p> <p>Associated CHATH Research and Development funds are through the Human System Program Office (HSC), Brooks AFB, Texas. Reference PE 64703 in the Air Force Descriptive Summaries. In FY97, qualification testing was completed; in FY98, Operational Test and Evaluation (OT&E) will be completed obtaining a Milestone III approval decision to exercise a production option (2Qtr/FY98). Initial Operational Capability (IOC) will be completed (4Qtr/FY 98).</p> <p>b. Chemically Hardened Air Management Plants (CHAMPS): CHAMPS are a significant component of the CHATH. The contaminated air going into the CHATH has to be specially filtered to remove contaminants, and the air must be heated or cooled. CHAMPS protects against chemical and biological agents,</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT | |
| <p>and enhances environmental cleanliness. CHAMPs must also be able to operate off of generator or other power sources. CHAMPs provides the Air Force with the capability to deploy medical personnel to a chemical/biological threat area while minimizing the impact on medical operations. FY97 funding procures 70 CHAMPs, FY98 will procure 35 CHAMPs and FY99 will procure 17 CHAMPs. If CHAMPs funding is reduced, the Air Force will have a limited ability to provide medical care to WIA under current contingency scenarios.</p> <p>CHAMPs also has Research and Development funds associated with it through the HSC Program Office. Reference PE 64703 of the Air Force Descriptive Summaries. In FY97 qualification testing was completed; in FY98 Operational Test and Evaluation (OT&E) will be completed obtaining a Milestone III approval decision to exercise a production option (2Qtr/FY98). Initial Operational Capability (IOC) will be completed 4thQtr/FY98.</p> <p>c. ATH Heaters: The Model H120 Army Space Heater (ASH) can be chemically hardened, and the ASH duct's are compatible with the Temper Tent. The current heater (Model H-82) in AF ATH assemblages cannot be chemically hardened and is not compatible with the ports on the temper tents. FY97 funding procured 268 heaters. No FY99 funding requested.</p> <p>d. Air Transportable Hospital (ATH) Water Distribution System: The water distribution system will allow the ATH to receive potable water and eliminate wastewater through the protective liner without compromising protection. Currently, potable water has to be carried in, and personnel (staff and patients) have to leave the CHATH to eliminate waste. This process hampers care whenever the ATH is used, even when a chemical/biological agent is not present. FY98 and FY99 funds will ensure a water system is present that will protect against infection from waste products by removing waste products from the clinical environment. FY98 funding will procure 10 ATH Water Distribution Systems and FY99 will procure 10.</p> <p>e. Civil Reserve Air Fleet (CRAF) Shipsets: During a major contingency, the Air Force does not have enough aircraft in its inventory to dedicate cargo aircraft to the singular mission of transporting WIA from forward locations to CONUS. The solution is to lease commercial airliners (a contract is in force), remove the seats, and replace them with litter stantions. The litter stantions are also called shipsets. The shipsets are kits that will reconfigure commercial Boeing 767 aircraft into flying ambulances. Commercial airports have jetways from which passengers enter and leave the aircraft. At deployed locations, ramps are required to load patients on the B-767s. The current system for loading litter patients is time intensive and requires aircraft maintenance equipment. There is a requirement for 42 Patient Loading Systems (PLS), a sub-component of the shipsets. Operational Test and Evaluation (OT&E) testing was completed in Nov 1996. Follow-on Operational Test and Evaluation (FOT&E) was completed in Aug 1997. FY98 funds will procure 42 PLS. No FY99 funding is requested.</p> <p>f. Theater Medical Information Program (TMIP): This is an integrated program that consolidates all DoD medical information systems. Wartime medical communication requirements are radically different from peacetime requirements. Commanders require information on WIAs (type, numbers, location); reports detailing casualty location and medical status from the front line to rear echelon; logistical data - resource consumption information, supply inventories, data on what is in the logistical pipeline, when will it be available, and what materiel can be diverted to satisfy a higher priority; and medical personnel - matching medical/surgical capability, availability/location, with WIA requirements. Current medical wartime communications infrastructure consists of readily available land lines and radio technology circa 1959. TMIP provides inter/intra unit medical communications systems for ground and Air Force theater medical units, utilizing secure and non-secure telephone, wireless and satellite media for transport of information. The result will be a deployable, organic medical information infrastructure capable of transmitting voice, electronic mail, data and images, interoperable with other services' communications systems. It will integrate new and existing high frequency and ultra high frequency radios, satellite communications and computer systems, and wireless, lightweight intra-crew</p> | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT | |
| <p>communication devices for medical crews. FY99 funding will procure high frequency/ultra high frequency radio systems dedicated to medical information management.</p> <p>g. Modernization and Replacement: This program provides for replacement and modernization of centrally managed, centrally procured equipment items. These equipment items and components are procured using a mission based priority system. Funding constraints often dictate procuring less than the inventory objective of each item -- necessitating procurement of several single item requirements to ensure overall maximum deployable readiness. To maximize the number of 100% ready deployable units, some of each of the following requirements are being procured in FY97-99.</p> <ul style="list-style-type: none">(1) Light Weight TEMPER Tents(2) Cable Assemblies(3) In-Flight Kits(4) Continuous Intermittent Suction Units(5) Pulse Oxymeters(6) Defibrillators(7) X-ray Film Processors | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | | DATE: FEBRUARY 1998 | |
|--|------|-----------|-----------------------------|---|--|------------|------------------------|------------------------|----------------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
| A. CHATH | | | | | | | | | |
| FY97 | VAR | VAR | AFMC/HSC | OPT/FFP [1] | INTELLITEC, INC DELAND, FL [1] | APR 98 | AUG 98 | YES | |
| FY98 | VAR | VAR | AFMC/HSC | OPT/FFP [1] | INTELLITEC, INC DELAND, FL [1] | APR 98 | AUG 98 | YES | |
| FY99 | VAR | VAR | AFMC/HSC | OPT/FFP [1] | INTELLITEC, INC DELAND, FL [1] | OCT 98 | APR 99 | YES | |
| B. CHAMPS | | | | | | | | | |
| FY97 | 70 | 100 | AFMC/HSC | OPT/FFP [2] | ENGINEERING AIR SYSTEMS, INC ST LOUIS, MO | APR 98 | AUG 98 | YES | |
| FY98 | 35 | 100 | AFMC/HSC | OPT/FFP [2] | ENGINEERING AIR SYSTEMS, INC ST LOUIS, MO | APR 98 | AUG 98 | YES | |
| FY99 | 17 | 102 | AFMC/HSC | OPT/FFP [2] | ENGINEERING AIR SYSTEMS, INC ST LOUIS, MO | OCT 98 | APR 99 | YES | |
| C. ATH HEATERS | | | | | | | | | |
| FY97 | 268 | 8 | AFMLO [3] FT DETRICK, MD | MIPR/OPT/ FP | ARMY/C-COM FT MONMOUTH, NJ ENGINEERED AIR SYSTEMS INC ST LOUIS, MO | SEP 97 | JUN 98 | | |
| D. ATH WATER DIST SYSTEM | | | | | | | | | |
| FY98 | 10 | 100 | AFMLO [3] FT DETRICK, MD | C/FFP | UNKNOWN | JUN 98 | DEC 98 | YES | |
| FY99 | 10 | 100 | AFMLO [3] FT DETRICK, MD | OPT/FFP | UNKNOWN | JUN 99 | DEC 99 | YES | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| E. CRAF SHIPSETS | | | | | | | | | | |
| FY98 | 42 | 36 | AFMC/HSC | C/FFP | UNKNOWN | JUN 98 | SEP 98 | NO | FEB 98 | |
| F. TMIP | | | | | | | | | | |
| FY99 | VAR | VAR | AFMC/HSC | C/FFP | UNKNOWN | APR 99 | JUL 99 | NO | JAN 99 | |
| G. MODERNIZATION & REPLACEMENT | | | | | | | | | | |
| FY97 | VAR | VAR | MULT [4] | C/FFP | MULT | DEC 96 | MAR 97 | | | |
| FY98 | VAR | VAR | MULT [4] | C/FFP | MULT | DEC 97 | APR 98 | | | |
| FY99 | VAR | VAR | MULT [4] | C/FFP | MULT | DEC 98 | MAR 99 | YES | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| REMARKS: | | | | | | | | | | |
| <p>1. HSC/BROOKS, AFB, TX WILL BE THE INTEGRATOR FOR THE CHATH SYSTEMS. MULTIPLE CONTRACTORS ARE INVOLVED; INTELLITEC, INC, DELAND, FL, IS THE CONTRACTOR FOR THE LINERS, THE COSTLIEST COMPONENT OF THE CHATH SYSTEM.</p> <p>2. PRODUCTION OPTION TO R&D CONTRACT WITH ENGINEERING AIR SYSTEMS, INC. AWARDED IN AUG 1995.</p> <p>3. AFLMO: AIR FORCE MEDICAL LOGISTICS OFFICE.</p> <p>4. MULTIPLE AGENCIES AND CONTRACTORS ARE INVOLVED WITH THE PROCUREMENT OF MODERNIZATION & REPLACEMENT EQUIPMENT. ABOVE AWARD AND DELIVERY DATES ARE THE DATES OF FIRST CONTRACT AWARD AND FIRST DELIVERY.</p> | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$ 934 | \$ 981 | \$ 973 | \$ 969 | \$ 964 | \$ 959 | \$ 955 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Environmental Projects Program procures equipment necessary to support environmental compliance and pollution prevention laws, executive orders, regulations, and goals. This program provides equipment related to reducing hazardous material use, hazardous waste generation, and release of pollutants into the environment. Included in this program is equipment that supports solid and hazardous waste recycling, the elimination of Air Force use of ozone depleting chemicals (ODC), hazardous waste recovery and treatment, air pollution reduction, and organic waste composting. Equipment purchases are required for day-to-day operations and support projects that further the Air Force objective of improving management practices in all areas regarding the environment.</p> <p>2. Following are descriptions of FY97-99 individual projects:</p> <p>a. Vacuum Vapor Degreaser System, Tinker AFB, OK: This equipment is required to recover volatile degreasing solvents used to clean jet engine components. This equipment eliminates the release of toxic substances into the environment. Recovered solvents will be recycled and reused.</p> <p>b. Wood Grinder, Hill AFB, UT: Equipment is required to process wood debris for reuse in composting and landscaping. This equipment eliminates the generation of approximately 75 tons of construction debris and municipal solid waste per month.</p> <p>c. Plastic Media Blast System, Hill AFB, UT: Aircraft paint removal is currently accomplished using a chemical stripping process producing hazardous waste which must be treated/disposed. This equipment uses non-hazardous plastic media to accomplish stripping operations eliminating the use of chemical strippers and reduces generation of hazardous waste.</p> <p>d. Separation/Filtration System, Robins AFB, GA: The heat treatment and quenching process of aluminum alloy aircraft parts is currently accomplished using a water and quenchant (cooling) solution. As the quenching solution goes out of tolerance, it is replaced/disposed. This equipment allows the separation and recycling of the quenching solution for reuse.</p> <p>e. Aluminum Vapor Plating System, Tinker AFB, OK: Plating of jet engine turbine components is currently accomplished using a traditional tank plating process. This equipment will accomplish aluminum plating via a chemical vapor plating process eliminating the use of heavy metals and large volumes of plating solutions resulting in a reduction of hazardous waste generation.</p> <p>f. Paint Stripping System, Robins AFB, GA: Aircraft radome paint removal is currently accomplished using a chemical stripping process which results in</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS | |
| <p>release of Volatile Organic Compounds (VOCs) and generation of hazardous waste. This equipment will use a flashjet (heat) stripping process reducing release of VOCs and generation of hazardous waste.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| A. VACUUM VAPOR DEGREASER | | | | | | | | | | |
| FY97 | | 254 | AFMC/OC-ALC | C/FP | UNKNOWN | FEB 98 | JUL 98 | YES | | |
| | | | | | | | | | | |
| B. WOOD GRINDER | | | | | | | | | | |
| FY97 | | 170 | AFMC/OO-ALC | C/FP | FORD TRACTOR CO GAITHERBURG, MD | MAR 97 | MAY 97 | | | |
| | | | | | | | | | | |
| C. PLASTIC MEDIA BLAST SYSTEM | | | | | | | | | | |
| FY97 | | 330 | AFMC/OO-ALC | SS/FP | SOUTHWEST RESEARCH INSTITUTE, SAN ANTONIO, TX | JAN 98 | JUL 98 | | | |
| | | | | | | | | | | |
| D. SEPARATION/FILTRATION SYSTEM | | | | | | | | | | |
| FY97 | | 180 | AFMC/WR-ALC | C/FFP | MOCO THERMAL INDUSTRIES, INC, ROMULUS, MI | AUG 97 | MAR 98 | | | |
| | | | | | | | | | | |
| E. ALUMINUM VAPOR PLATING SYSTEM | | | | | | | | | | |
| FY98 | | 981 | AFMC/OC-ALC | OPT/DO/ CPAF [1] | HOWMET WHITEHALL, MI | JUN 98 | DEC 98 | YES | | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ENVIRONMENTAL PROJECTS | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| F. PAINT STRIPPING SYSTEM | | | | | | | | | | |
| FY99 | | 973 | AFMC/WR-ALC | C/FFP | UNKNOWN | JUL 99 | DEC 99 | YES | | |
| REMARKS: 1. OPTION TO PRIOR YEAR OC-ALC DELIVERY ORDER CONTRACT WITH HOWMET, WHITEHALL, MICHIGAN. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: AIR BASE OPERABILITY | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$2,905 | \$4,118 | \$5,363 | \$4,482 | \$1,884 | \$ 0 | \$ 0 |
| DESCRIPTION: | | | | | | | | |
| <p>1. Air Base Operability (ABO) is an ongoing program to provide the integrated capability needed to establish and maintain air base readiness during contingencies. ABO integrates and coordinates those unit operations that interact during a contingency to establish, maintain, or restore the installation's capability to execute its assigned missions. ABO includes the planning, organizing, training, equipping, and command and control necessary for the installation to function during contingencies, i.e. emergencies involving military forces caused by natural disaster, major accidents, terrorists, subversives, or by military operations. The current ABO program includes a number of systems designed to improve the ability of installations to establish and maintain readiness during contingencies.</p> <p>2. The following procurements are programmed in FY97-99:</p> <p style="padding-left: 20px;">a. Deployable Pavement Repair System (DPRS). DPRS is a portable mixing/dispensing hardware for the rapid repair of spalls and small craters. Improvements over the folded fiberglass mat method include: (1) Reduced crater maintenance once repaired, (2) stability of the repair, (3) increased safety in fighter tail hook and heavy aircraft operations, and (4) elimination of mat anchoring difficulties in full-depth asphalt pavements. The DPRS significantly reduces the time required for Red Horse units to prepare and repair contingency airfields for reception and beddown of aircraft. FY97 funding buys five units and completes procurement of the item.</p> <p style="padding-left: 20px;">b. Deployable Fire Protection System (DFPS). DFPS is a portable, stand-alone fire protection system designed to provide protection for hot pit refueling (aircraft engines remain running), high value facilities, and equipment. The system will augment the normal fire fighting equipment in a wartime environment by protecting aircraft during hot integrated combat turns and providing limited quick reaction protection for high value facilities/equipment during water outages. The system is activated by an optical flame detector which automatically detects fire, discharges an agent through an oscillating nozzle, and transmits an alarm over a radio network to the fire station control room. The system is self-contained, air transportable, and capable of being towed to any location to meet operational requirements. During hot pit refueling, the DFPS can begin applying an agent within ten seconds. Present protection consists of a truck and crew which can be up to one minute away. Without DFPS, the immediate capability to extinguish hot pit refueling or hangar fires before they create major aircraft damage is severely hampered.</p> <p>The status of R&D efforts follows: The Engineering and Manufacturing Development contract was awarded September 1995 to Keco Industries, Inc., Florence, KY. Development Test and Evaluation slipped from June 1996 to July 1997 due to contractor difficulties with the flame detection subsystem; these problems have been resolved. Initial Operational Test and Evaluation (approval for Air Force use) is scheduled for completion in March 1998. This is a new item and does not replace another item in the Air Force inventory. Reference Program Element 64617 of the Air Force Descriptive Summaries. FY97 funding will procure 15 units and complete procurement of the item.</p> | | | | | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: AIR BASE OPERABILITY | |
| <p>c. All Purpose Remote Transport System (ARTS). ARTS is a low cost survivable platform capable of remote operations at distances up to three miles. ARTS was designed as a delivery platform for further development of detector, sensor and Explosive Ordnance Device (EOD) tools. Air Force Wright Laboratory developed this multi-purpose tool under the direction/funding of the OSD Joint Robotics Program. OSD through Wright Laboratory is working with a vendor to take this tool directly from the laboratory to the field. Reference Program Element 64617 of the Air Force Descriptive Summaries. A commercial version of ARTS will be available in 1998. FY98 Other Procurement funds will acquire five of the commercially-available systems for proof-of-concept testing against a variety of Air Force EOD applications. FY99 funding will procure eight production units against an Air Force inventory objective of 26.</p> <p>d. Medium Shelter Systems. This program replaces an existing generation of aging Harvest Falcon/Harvest Eagle (HF/HE) shelters and Environmental Control Units (ECUs) with a new generation portable shelter system that is less airlift intensive while providing improved operational performance. The system includes a shelter, insulation, flooring, utilities interfaces, and an ECU. This system serves as a maintenance back shop, equipment storage area or operations support facility. FY98 funding procures two shelters for preliminary commercial item testing and evaluation; FY99 funding will procure four shelters for operational testing, evaluation and training. The inventory objective for testing of commercial items against Air Force applications is six shelters. Follow-on HF/HE funding for this item is programmed in P-1 line #100, Mobility Equipment.</p> <p>e. Deployable Power Generation and Distribution System (DPGDS). The DPGDS provides a new family of bare base electric power generation and distribution equipment to improve capability and reduce deployment requirements for HF/HE kits. DPGDS supports bare base prime (high voltage) and tactical (low voltage) power production and delivery including secondary distribution centers, secondary power distribution panels, transformers, controls, cabling, and ancillary support equipment. FY98 funding procures one commercial system for proof-of-concept testing and evaluation. FY99 funding procures a second commercial system for additional testing. Follow-on HF/HE funding for this item is programmed in P-1 line #100, Mobility Equipment.</p> <p>f. Explosive Ordnance Device (EOD) Support Equipment. The Navy (NAVEODTECHDIV) is the OSD Executive Agent for joint service EOD R&D. Production funding is provided by individual services. The Air Force requires the following equipment for the safety of deployed personnel and expedient removal of unexploded ordnance hazards:</p> <ul style="list-style-type: none">-- EOD Improvised Explosive Devices (IED) Tool Kit. Enhances the EOD operation against IEDs. FY98 funds will procure 223 units. No FY99 funding requested.-- 90MM Water Cannon: Mitigates threats by Large Vehicle/Container IEDs. FY98 funds 10 units. No FY99 funding requested.-- Explosive Driven Water Charge: A water-charged device used to render safe and access large vehicle IEDs. FY98 and FY99 funds will each procure five units each fiscal year.-- Advanced Radiographic System (ARS): A small portable x-ray machine which displays information real time on a standard lap top computer; the ARS converts x-ray imagery into an electronic picture. FY99 funds will procure four units. | | |

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| | P-1 ITEM NO: 93 | | PAGE NO: 76 | |
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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|--|------------|--------|---------|---|---------|--------|------------------------|--|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: AIR BASE OPERABILITY | | | | | |
| PROCUREMENT ITEMS | ID CODE | FY1997 | | FY1998 | | FY1999 | | | |
| | | QTY. | COST | QTY. | COST | QTY. | COST | | |
| A. DPRS | A | 5 | \$1,512 | | | | | | |
| B. DFPS | B | 15 | \$1,393 | | | | | | |
| C. ARTS | A | | | 5 | \$1,083 | 8 | \$1,802 | | |
| D. MEDIUM SHELTER SYSTEMS | A | | | 2 | \$ 200 | 4 | \$ 500 | | |
| E. DPGDS | A | | | 1 | \$2,405 | 1 | \$2,851 | | |
| F. EOD SUPPORT EQUIPMENT | A | | | | | | | | |
| EOD IED TOOL KIT | | | | 223 | \$ 225 | | | | |
| 90MM WATER CANNON | | | | 10 | \$ 55 | | | | |
| EXPLOSIVE DRIVEN WTR CHARGE | | | | 5 | \$ 150 | 5 | \$ 150 | | |
| ARS | | | | | | 4 | \$ 60 | | |
| TOTALS: | | | | | \$2,905 | | \$4,118 | | |
| | | | | | | | \$5,363 | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: AIR BASE OPERABILITY | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| A. DPRS | | | | | | | | | | |
| FY97 | 5 | 302 | AFMC/ASC | OPT/FPIF [1] | ENTWISTLE BOSTON, MA | APR 97 | APR 98 | | | |
| B. DFPS | | | | | | | | | | |
| FY97 | 15 | 93 | AFMC/ASC | OPT/FP [2] | KECO FLORENCE, KY, M | OCT 98 | JAN 99 | YES | | |
| C. ARTS | | | | | | | | | | |
| FY98 | 5 | 217 | AFMC/ASC | C/FFP | UNKNOWN | AUG 98 | MAY 99 | YES | | |
| FY99 | 8 | 225 | AFMC/ASC | OPT/FFP | UNKNOWN | JUN 99 | NOV 99 | YES | | |
| D. MEDIUM SHELTER SYSTEMS | | | | | | | | | | |
| FY98 | 2 | 100 | AFMC/ASC | C/FFP | UNKNOWN | AUG 98 | NOV 98 | YES | | |
| FY99 | 4 | 125 | AFMC/ASC | OPT/FFP | UNKNOWN | NOV 98 | MAR 99 | YES | | |
| E. DPGDS | | | | | | | | | | |
| FY98 | 1 | 2,405[3] | AFMC/ASC | C/FFP | UNKNOWN | JUN 98 | AUG 98 | YES | | |
| FY99 | 1 | 2,851[3] | AFMC/ASC | OPT/FFP | UNKNOWN | FEB 99 | MAY 99 | YES | | |
| F. EOD SPT EQUIPMENT | | | | | | | | | | |
| EOD IED TOOL KIT | | | | | | | | | | |
| FY98 | 223 | 1 | AFMC/ASC | C/FFP | UNKNOWN | AUG 98 | NOV 98 | YES | | |
| 90MM WATER CANNON | | | | | | | | | | |
| FY98 | 10 | 5.5 | AFMC/ASC | C/FFP | UNKNOWN | AUG 98 | NOV 98 | NO | JUN 98 | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|--|-------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: AIR BASE OPERABILITY | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| EXPLOSIVE DRIVEN WTR CHARGE | | | | | | | | | | |
| FY98 | 5 | 30 | AFMC/ASC | C/FFP | UNKNOWN | JUL 98 | OCT 98 | NO | MAY 98 | |
| FY99 | 5 | 30 | AFMC/ASC | OPT/FFP | UNKNOWN | FEB 99 | MAY 99 | NO | MAY 98 | |
| | | | | | | | | | | |
| ARS | | | | | | | | | | |
| FY99 | 4 | 15 | AFMC/ASC | C/FFP | UNKNOWN | FEB 99 | MAY 99 | YES | | |
| | | | | | | | | | | |
| REMARKS: 1. OPTION TO A C/FPIF CONTRACT AWARDED DECEMBER 92. 2. OPTION TO PRIOR YEAR COMPETITIVE R&D CONTRACT. CONTRACT AWARD DELAYED DUE TO CONTRACTOR REDESIGN DIFFICULTIES WITH DETECTOR AND SELF-AIMING NOZZLE. 3. FY98 AND FY99 FUNDING DO NOT BUY IDENTICAL COMMERCIAL SYSTEMS; HENCE THE DIFFERENCE IN FISCAL YEAR UNIT COSTS. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: PALLET, AIR CARGO | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$8,179 | \$1,189 | \$2,001 | \$3,589 | \$3,776 | \$3,652 | \$3,702 |
| DESCRIPTION: | | | | | | | | |
| <p>1. This program provides funding for air cargo pallets. Specifically, the HCU-6E Air Cargo Pallet measures 108" X 88" and is constructed of aluminum rail (frame) with aluminum skins thermally bonded to a balsa wood core. It is designed for operations in the 463L cargo handling system with specialized material handling vehicles (forklifts, K-loaders, pallet dollies) and with the Air Force 463L equipped cargo aircraft (C-5, C-141, C-130, C-17, and KC-10).</p> <p>2. Pallets are an integral part of the Military Airlift System. They facilitate the maximum use of scarce aircraft assets by allowing the pre-loading of aircraft cargo floors prior to arrival of the airlift aircraft. For example, loading a C-141 with its maximum complement of pre-palletized cargo takes from one to two hours and a loading crew of four to five people. To load the same amount of cargo onto the aircraft without pallets would take eight to ten hours with the same crew. And some types of cargo cannot be loaded without pallets. Lack of these critical assets will impede the orderly and prompt movement of all DOD cargo throughout the airlift system and could ultimately change the outcome of a battle or war.</p> <p>3. FY97 funding procures 9,322 pallets; and FY98 and 99 will procure 1,308 and 2,154 pallets respectively.</p> <p>4. Item Code: A.</p> | | | | | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: PALLET AIR CARGO | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 176,430 | 178,360 | 179,668 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 9,322 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | | 1,308 | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | | 2,154 | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (-7,392) | (0) | (-4,928) | |
| END OF YEAR ASSET POSITION | 178,360 | 179,668 | 176,894 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 165,000 | VEH AUGMENT | | |
| OTHER | 20,645 | | | |
| TOTAL INVENTORY OBJECTIVE | 185,645 | | | |
| REMARKS: | | | | |

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|---|--|----------------|---------------|--|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: NET ASSEMBLY, 108" X 88" | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$1,860 | \$2,998 | \$1,916 | \$1,688 | \$1,969 | \$1,960 | \$2,030 |
| DESCRIPTION: | | | | | | | | |
| <p>1. This program provides for nets associated with the use of air cargo pallets. The net assembly consists of two side nets and one top net which are constructed of nylon straps assembled in the form of webs with adjustable tie-down straps and buckles. Top nets are used for vertical restraint of palletized cargo. Side nets are used for forward, rear, and side restraint of palletized cargo. The pallet and net sets are designed for operations in the 463L cargo handling system with standardized specialized material handling vehicles (forklifts, K-loaders, pallet dollies) and with Air Force 463L equipped cargo aircraft (C-5, C-141, C-130, C-17, and KC-10).</p> <p>2. Nets and pallets are an integral part of the military airlift system. They facilitate the maximum use of scarce aircraft assets by allowing the pre-loading of aircraft cargo floors prior to arrival of the airlift aircraft. Without these critical assets, the military airlift system will not function efficiently and rapid go-to-war capabilities will be lost.</p> <p>3. Procurements are required to satisfy both shortages and replacement of condemnations. FY97 funding procured 12,802 top nets and 4,810 side nets. FY98 funding procures 6,923 top nets and 23,953 side nets. FY99 will procure 4,991 top nets along with 14,337 side nets.</p> | | | | | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: NET ASSEMBLY, 108" X 88 ", TOP NET | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 130,804 | 143,754 | 147,622 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 7,275 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 12,802 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 6,923 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 4,991 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (-7,127) | (-3,055) | (-3,055) | |
| END OF YEAR ASSET POSITION | 143,754 | 147,622 | 149,558 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 165,000 | VEH AUGMENT | | |
| OTHER | 20,369 | | | |
| TOTAL INVENTORY OBJECTIVE | 185,369 | | | |
| REMARKS: | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: NET ASSEMBLY, 108" X 88", SIDE NET | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 263,944 | 266,591 | 282,337 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 12,199 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 4,810 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 23,953 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 14,337 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (-14,362) | (-8,207) | (-8,207) | |
| END OF YEAR ASSET POSITION | 266,591 | 282,337 | 288,467 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 330,000 | VEH AUGMENT | | |
| OTHER | 41,036 | | | |
| TOTAL INVENTORY OBJECTIVE | 371,036 | | | |
| REMARKS: | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: BLADDERS, FUEL | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$1,909 | \$2,160 | \$1,329 | \$1,315 | \$1,337 | \$1,362 | \$1,391 |
| <p>DESCRIPTION:</p> <p>1. The fabric collapsible, 50K fuel bladder serves as a supply/storage tank for fuel at forward operating and bare base locations. Fuel is then transferred from the bladder to an aircraft by the R-14 refueling module which is the interface between the bladder and an aircraft. The R-14 refueling system is the only modularized refueling system in the Air Force inventory which is capable of supporting the operational commands' (Air Combat Command, Air Mobility Command, United States Air Forces Europe, and Pacific Air Forces) bare base refueling requirements as well as supplementing selected main operating bases. Without this bladder, the R-14 refueling module is not a functional assembly. Failure to procure this equipment will preclude the using commands from having aircraft refueling capability in both peacetime and combat situations at forward operating locations.</p> <p>2. FY97 funding procured 159 replacements; FY98 will procure 207 replacements, and FY99 will procure 128 replacement fuel bladders.</p> <p>3. Item Code: A.</p> | | | | | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: BLADDERS, FUEL | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 733 | 532 | 532 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 0 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | | 207 | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | | 128 | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (- 201) | (- 207) | (- 128) | |
| END OF YEAR ASSET POSITION | 532 | 532 | 532 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 361 | VEH AUGMENT | | |
| OTHER | 171 | | | |
| TOTAL INVENTORY OBJECTIVE | 532 | | | |
| REMARKS: Note: FY 97 procurements are included in assets on hand because they were delivered before 31 Mar 97. | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: AERIAL BULK FUEL DELIVERY SYSTEM | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$ 515 | \$1,996 | \$4,320 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Aerial Bulk Fuel Delivery System (ABFDS) is a pallet-mounted bulk fuel delivery pumping module transported and used in the cargo compartment of military aircraft. It is critical to the success of contingencies where normal ways to deliver fuel (fuel trucks and pipeline) are not available or have been destroyed. The system consists of an air cargo pallet mounted fuel delivery pumping module which has a pumping capacity of 600 gallons per minute. In use, the module is positioned at the rear of C-130, C-141 or C-5 aircraft. It pumps fuel from fuel trucks into 3,000 gallon fuel bladders which are prepositioned in the aircraft forward of the module; the number of bladders is dependent on the type of aircraft. At the aircraft destination, the fuel can be either pumped onto waiting fuel trucks or be pumped directly from the aircraft to nearby storage tanks/storage bladders. The ABFDS can be used for jet fuel, diesel fuel or gasoline.</p> <p>2. The majority of the current ABFDSs were procured in the mid-1960s timeframe surpassing their 20-year service life. They have gasoline engines which generate hazardous exhaust manifold temperatures and are a significant safety hazard capable of causing catastrophic aircraft and aircrew losses. The older systems have also experienced operational and mechanical problems due to parts obsolescence and overall deterioration due to age. The new system will have a diesel engine which operates on multi-fuels and generates lower exhaust temperatures.</p> <p>3. FY97 funding procured one shortage and one replacement ABFDS; FY98 procures 17 replacements; and FY99 funds will procure 36 replacements completing the inventory objective for this item.</p> | | | | | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: AERIAL BULK FUEL DELIVERY SYSTEM | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 58 | 59 | 59 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 2 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | | 17 | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | | 36 | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | (1) | (17) | (36) | |
| END OF YEAR ASSET POSITION | 59 | 59 | 59 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 58 | VEH AUGMENT | | |
| OTHER | 1 | | | |
| TOTAL INVENTORY OBJECTIVE | 59 | | | |
| REMARKS: | | | | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: PHOTOGRAPHIC EQUIPMENT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$6,076 | \$5,924 | \$5,576 | \$5,932 | \$6,037 | \$5,771 | \$5,854 |
| DESCRIPTION: | | | | | | | | |
| <p>1. The Photographic Equipment program procures still photographic, motion photography and graphic imaging equipment and equipment systems. These equipment items support Air Force reconnaissance and intelligence programs, Air Force test ranges, combat camera still photographic documentation teams and Base Visual Information Service Centers by replacing older, antiquated equipment that has either reached or exceeded maximum useful life or is unable to provide the speed and quality of resolution that provides critical visual information necessary for rapid and accurate command decisions. Visual Information Service Centers support commanders at all levels including the National Command Authority and the Chairman, Joint Chiefs of Staff. Equipment includes conventional and digital processors, still and motion cameras, developing and finishing equipment and video/data projection systems.</p> <p>a. Photo Projection Equipment (FSC 6730): FY97-99 funding continues procurement of film and electronic image and data projection systems. The program is designed to incorporate the use of electronic projection systems where appropriate to take advantage of imagery developed by electronic media without transferring images to film or acetate based projection materials. The transition to electronic imagery is the result of technological growth and the need to reduce/eliminate film/chemical based systems to protect the environment.</p> <p>b. Photo Equipment and Accessories (FSC 6760): FY97-99 also continues replacement procurement for specialized film-based photographic systems that cannot be replaced by electronic imagery. These newer systems comply with or exceed federal and state environmental regulations and are required because of their ability to provide full resolution capability or rapid high quantity reproduction of imagery that electronic imaging systems cannot yet meet.</p> <p>c. Electronic Imaging Center Equipment Conversions: In FY92 the Air Force implemented a service-wide program to integrate and install electronic and digital still and photographic imaging systems at all Air Force Base Visual Information Service Centers. The initiative recognized technology would force conversion of film and paper-based photographic systems and graphic systems into digital still cameras, multimedia systems, digital photographic processing systems, digital graphic imaging and processing systems, image databanks, image network hubs and image presentation systems. The initiative standardized these new systems to insure interoperability between systems and locations. The technology also enhanced exportability of imagery and is providing commanders with near real-time imagery from anywhere in the world. All Air Force bases have basic electronic image systems installed. The F97-99 electronic imaging program will replace and update systems procured from FY92 that are facing obsolescence.</p> <p>2. The following P-40a depicts funding associated with categories of photographic equipment.</p> | | | | | | | | |

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| | P-1 ITEM: 98 | | PAGE NO: 100 | |
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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: PRODUCTIVITY INVESTMENTS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST (in thousands) | | \$9,958 | \$10,676 | \$12,304 | \$3,853 | \$ 0 | \$ 0 | \$ 0 |
| <p>DESCRIPTION:</p> <p>1. This P-1 line funds the Air Force Productivity Enhancing Capital Investment (PECI) projects in the Productivity Investment Fund (PIF) and the Fast Payback Capital Investment (FASCAP) programs. Investment funds are available to all Air Force organizations to encourage productivity enhancements for more efficient operations and focus on labor cost savings and reduction in unit cost of operations. These programs conserve critical resources, enhance unit capability, and improve combat effectiveness. The users (MAJCOMs) provide the offsets from projected savings to sustain future investments for these programs. Thus, these programs are funded by the MAJCOMs. Elimination of this funding will reduce the capability to implement productivity and quality improvements in the work place.</p> <p>a. To qualify for the PIF program, projects must cost over \$200,000 and amortize in less than four years. Projects are approved by Air Force based on shortest payback period and highest rate of return on investment. To date, projects have yielded life cycle savings of over \$20 for every \$1 invested.</p> <p>b. To qualify for the FASCAP program, projects must cost less than \$200,000 and amortize in less than two years. Projects are approved by MAJCOMS based on shortest amortization period and best return on investment. To date, projects have yielded life cycle savings of over \$7 for every \$1 invested.</p> <p>2. The FY97 program consisted of \$5.197 million for PIF and \$4.761 million for FASCAP projects. The FY98 program consists of \$0.990 million for a PIF project and \$9.686 million for FASCAP projects; and the FY99 program consists of \$2.430 million for PIF and \$9.874 million for FASCAP projects.</p> <p>3. Individual PIF projects are listed on the P-40a along with contracting information on the P-5a. Individual FASCAP projects are not provided because of the large number of projects and contracting actions.</p> | | | | | | | | |

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| | P-1 ITEM: 99 | | PAGE NO: 102 | |
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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: PRODUCTIVITY INVESTMENTS | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| PIF | | | | | | | | | | |
| A. WANG HARDWARE REPLACEMENT (AIR FORCE SERVICES) | | | | | | | | | | |
| FY97 | VAR | 2,602 | HQ AETC | C/FP | BISHOP ENGINEERING ARLINGTON, VA | OCT 96 | OCT 96 | | | |
| B. HIGH FREQUENCY CONSOLIDATION (PACIFIC AIR FORCES) | | | | | | | | | | |
| FY97 | VAR | 375 | HQ PACAF | C/FP | ROCKWELL INTERNATIONAL DALLAS, TX | MAR 97 | APR 97 | | | |
| C. AUTOMATED DIGITAL WEATHER SWITCH (AIR WEATHER SERVICE) | | | | | | | | | | |
| FY97 | VAR | 2,220 | HQ AMC | C/FP | UNISYS CORP MCLEAN, VA | SEP 97 | OCT 97 | | | |
| FY98 | VAR | 380 | HQ AMC | OPT/FP | UNISYS CORP MCLEAN, VA | OCT 97 | DEC 97 | | | |
| D. MOBILE FIRE TRAINER (PACIFIC AIR FORCES) | | | | | | | | | | |
| FY98 | 1 | 610 | HQ PACAF | SS/FP | TMC COMPANY - TRIAD FIRE SERVICES PANAMA CITY, FL | FEB 98 | MAY 98 | YES | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$21,478 | \$24,048 | \$35,973 | \$35,757 | \$37,667 | \$13,179 | \$13,423 |
| DESCRIPTION: | | | | | | | | |
| <p>1. This P-1 line supports Air Force Bare Base mobility equipment...better known as Harvest Falcon (HF) and Harvest Eagle (HE). Designed and sized to support two simultaneous Major Theater Wars (MTW) the equipment provides theater warfighters billeting, industrial, and air field capability to support a total of 68,200 combat troops and 822 aircraft at 15 austere locations, building complete bases from the ground up. Of the two systems, HF is the newest and has the greatest capability (housekeeping + air base infrastructure). It is an outgrowth of the FY90-94 Defense Planning Guidance (DPG) that initially tasked the Air Force to support United States Central Command (USCENTCOM) Rapid Deployment forces and save on critical airlift resources through theater prepositioning. Subsequent DPG's have continued this requirement. The outstanding reputation of the AF Bare Base program, established during the Gulf War, has continued in successive Military-Operations-Other-Than-War (MOOTW) throughout the world. These include Operations Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, and Desert Focus. Harvest Falcon remains a top priority with USCINCCENT.</p> <p>2. The unparalleled success of the AF Bare Base program and unending demand for the equipment to support MOOTW has taken its toll. As a result the majority of HF and HE requires comprehensive repair or replacement. Much of the equipment has been used for over three years, well beyond design parameters...this makes AF Bare Base Mobility Equipment reinvestment funding a most crucial issue.</p> <p>3. FY99 procurement dollars will buy fuel handling and storage capability equipment. The program will replace numerous refrigeration units used for food storage. FY99 continues to replace the older Environmental Control Units (ECU) with the more efficient, lighter Field Deployable Environmental Control Units (FDECU). Replacement hygiene facilities, water storage, and kitchen water system units will be bought in FY99. The funding in FY99 will also procure replacement electrical subsystems including step-down panels, primary distribution panels and secondary distribution systems. FY99 dollars will also buy additional shelters, tentage, initial kitchens, and storage containers to protect equipment.</p> <p>4. A listing of individual projects is provided on the following P-40a.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|---------|--------|---------|--|---------|--------|-------------------------------|--|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | |
| PROCUREMENT ITEMS | ID CODE | FY1997 | | FY1998 | | FY1999 | | | |
| | | QTY. | COST | QTY. | COST | QTY. | COST | | |
| 1. REFUELING SYSTEMS | E | | | | | | | | |
| R-14 MOBILE HYDRANT | A | 14 | \$1,541 | | | | | | |
| 10 THOUSAND GALLON FUEL BLADDER | A | | | 54 | \$ 432 | 82 | \$ 656 | | |
| 50 THOUSAND GALLON FUEL BLADDER | A | 82 | \$ 986 | 103 | \$1,071 | 280 | \$2,912 | | |
| R-22 MOBILE HYDRANT | A | | | 6 | \$ 114 | 12 | \$ 228 | | |
| 2. REFRIGERATION EQUIPMENT | | | | | | | | | |
| REFER PANELS, 10KWT | A | | | | | 15 | \$ 90 | | |
| REFER UNIT, 300 CU FT | A | | | | | 54 | \$1,361 | | |
| FIELD DEPLOYABLE ENVIRONMENTAL CONTROL UNITS (FDECU) | A | | | 690 | \$7,452 | 667 | \$7,204 | | |
| 3. WATER SYSTEMS | | | | | | | | | |
| LATRINES | A | | | | | 18 | \$ 468 | | |
| SHOWER UNITS | A | | | | | 53 | \$ 896 | | |
| SHAVE UNITS | A | | | | | 67 | \$ 744 | | |
| WATER LOOP SYSTEM | A | 4 | \$1,264 | 3 | \$ 873 | 2 | \$ 582 | | |
| INITIAL WATER DISTRIBUTION SYSTEM (IWDS) | A | | | 4 | \$1,124 | 2 | \$ 562 | | |
| REVERSE OSMOSIS WATER PURIFICATION UNIT (ROWPU) | A | 12 | \$ 866 | | | | | | |
| 3 THOUSAND GALLON WATER BLADDER (ONION TANK) | A | | | 59 | \$ 142 | 113 | \$ 271 | | |
| 20 THOUSAND GALLON WATER BLADDER | A | | | 136 | \$ 931 | 238 | \$1,618 | | |
| SELF HELP LAUNDRY | A | 55 | \$1,458 | 43 | \$1,140 | | | | |
| 9-1 KITCHEN WATER SYSTEM | A | | | | | 34 | \$ 850 | | |
| 4. RUNWAY SUBSYSTEMS | | | | | | | | | |
| REMOTE AREA LIGHT SETS | A | 40 | \$1,325 | | | | | | |
| 5. ELECTRICAL SUBSYSTEMS | | | | | | | | | |
| SECONDARY DISTRIBUTION SYSTEM | A | 92 | \$1,785 | 102 | \$2,652 | 84 | \$2,352 | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | |
|---|---------|--------|----------|--|----------|--------|-------------------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | |
| PROCUREMENT ITEMS | ID CODE | FY1997 | | FY1998 | | FY1999 | | |
| | | QTY. | COST | QTY. | COST | QTY. | COST | |
| 750 THOUSAND KILOWATT GENERATOR | A | 21 | \$3,963 | | | | | |
| 60 KILOWATT GENERATOR WHEEL KIT | A | 2 | \$ 3 | | | | | |
| 9-1 KITCHEN ELECTRICAL SYSTEM | A | | | | | 10 | \$ 300 | |
| "B" PANEL ELECTRICAL | A | | | | | 75 | \$ 75 | |
| "A" PANEL ELECTRICAL | A | | | | | 54 | \$ 54 | |
| PRIMARY DISTRIBUTION PANEL | A | | | | | 179 | \$ 90 | |
| | A | | | | | | | |
| 6. SHELTERS | | | | | | | | |
| SMALL SHELTER SYSTEMS | A | | | 50 | \$1,575 | 115 | \$3,174 | |
| 4 THOUSAND SQ FT SHELTER | A | 30 | \$3,787 | 15 | \$1,815 | 35 | \$4,235 | |
| INITIAL DEPLOYABLE KITCHEN (IDK) | A | 10 | \$4,337 | 14 | \$2,520 | | \$1,080 | |
| 9-1 KITCHEN TENTAGE | A | | | | | 24 | \$1,248 | |
| LIGHT SETS (TEMPER TENTS) | A | | | 280 | \$ 91 | 279 | \$ 92 | |
| | | | | | | | | |
| 7. MISCELLANEOUS | | | | | | | | |
| SHIP/STORE CONTAINERS | A | 22 | \$ 163 | 286 | \$2,116 | 610 | \$4,636 | |
| SPOOL DISK MACHINE | A | | | | | 15 | \$ 195 | |
| TOTALS: | | | \$21,478 | | \$24,048 | | \$35,973 | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: MOBILITY EQUIPMENT |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|------------------------|------|-----------|-----------------|------------------------|--------------------------------------|------------|------------------------|-----------------|----------------------|
| 1. REFUELING SYSTEMS | | | | | | | | | |
| R-14 MOBILE HYDRANT | | | | | | | | | |
| FY 1997 | 14 | 110.1 | AFMC/SA-ALC | OPT/FP | ENTWISTLE HUDSON, MA | MAR 97 | AUG 97 | | |
| 10K GAL FUEL BLADDER | | | | | | | | | |
| FY 1998 | 54 | 8 | AFMC/SA-ALC | OPT/FP/MIPR | ARMY/TACOM (UNKNOWN) | FEB 98 | JUL 98 | YES | |
| FY 1999 | 82 | 8 | AFMC/SA-ALC | OPT/FP/MIPR | ARMY/TACOM (UNKNOWN) | FEB 99 | JUL 99 | YES | |
| 50K GAL FUEL BLADDER | | | | | | | | | |
| FY1997 | 82 | 12 | AFMC/SA-ALC | C/FP | BELL AVON PIACUNE, MI | DEC 96 | MAY 97 | | |
| FY 1998 | 103 | 10.4 | AFMC/SA-ALC | C/FP | RELIANCE AERO PRODUCTS E. CAMDEM, AR | JAN 98 | FEB 99 | | |
| FY 1999 | 280 | 10.4 | AFMC/SA-ALC | OPT/FP | RELIANCE AERO PRODUCTS E. CAMDEM, AR | DEC 98 | MAY 99 | YES | |
| R-22 MOBILE HYDRANT | | | | | | | | | |
| FY 1998 | 6 | 19 | AFMC/WR-ALC | C/FP | UNKNOWN | APR 98 | JAN 99 | YES | |
| FY 1999 | 12 | 19 | AFMC/WR-ALC | OPT/FP | UNKNOWN | NOV 98 | MAR 99 | YES | |
| 2. REFRIGERATION EQUIP | | | | | | | | | |
| REFER PANEL 10KWT | | | | | | | | | |
| FY 1999 | 15 | 6 | AFMC/SA-ALC | C/FP/MIPR | ARMY/TACOM (UNKNOWN) | JUN 99 | DEC 99 | YES | |
| REFER UNIT 300 CU FT | | | | | | | | | |
| FY 1999 | 54 | 25.2 | AFMC/WR-ALC | C/FP | UNKNOWN | FEB 99 | DEC 99 | YES | |
| FDECU | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|-------------|------------------|------------------------|--|---------------------------------|-------------------|-------------------------------|------------------------|-----------------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY 1998 | 690 | 10.8 | AFMC/SA-ALC | OPT/FP | KECO INDUSTRIES FLORENCE, KY | JUN 98 | NOV 98 | YES | | |
| FY 1999 | 667 | 10.8 | AFMC/SA-ALC | OPT/FP | KECO INDUSTRIES FLORENCE, KY | NOV 98 | APR 99 | YES | | |
| 3. WATER SYSTEMS | | | | | | | | | | |
| LATRINES | | | | | | | | | | |
| FY 1999 | 18 | 26 | AFMC/SA-ALC | C/FP | UNKNOWN | MAR 99 | MAR 00 | YES | | |
| SHOWER UNITS | | | | | | | | | | |
| FY 1999 | 53 | 16.9 | AFMC/WR-ALC | C/FP | UNKNOWN | APR 99 | DEC 00 | YES | | |
| SHAVE UNITS | | | | | | | | | | |
| FY 1999 | 67 | 11.1 | AFMC/WR-ALC | C/FP | UNKNOWN | APR 99 | DEC 00 | YES | | |
| WATER LOOP SYSTEM | | | | | | | | | | |
| FY 1997 | 4 | 316 | AFMC/WR-ALC | C/FP | KECO INDUSTRIES FLORENCE, KY | JUN 97 | SEP 98 | | | |
| FY 1998 | 3 | 291 | AFMC/WR-ALC | OPT/FP | KECO INDUSTRIES FLORENCE, KY | FEB 98 | JAN 99 | YES | | |
| FY 1999 | 2 | 291 | AFMC/WR-ALC | OPT/FP | KECO INDUSTRIES FLORENCE, KY | NOV 98 | APR 99 | YES | | |
| IWDS | | | | | | | | | | |
| FY 1998 | 4 | 281 | AFMC/WR-ALC | C/FP | UNKNOWN | APR 98 | DEC 98 | YES | | |
| FY 1999 | 2 | 281 | AFMC/WR-ALC | OPT/FP | UNKNOWN | NOV 98 | MAR 99 | YES | | |
| ROWPU | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|---|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY 1997 | 12 | 72.2 | AFMC/WR-ALC | OPT/FP MIPR | ARMY/TACOM HIGHLAND ENG DETROIT, MI | MAR 97 | NOV 97 | | | |
| 3K GAL WATER BLADDER (ONION TANK) | | | | | | | | | | |
| FY 1998 | 59 | 2.4 | AFMC/SA-ALC | C/FP/MIPR | ARMY/TACOM (UNKNOWN) | FEB 98 | JUL 98 | YES | | |
| FY 1999 | 113 | 2.4 | AFMC/SA-ALC | OPT/FP/ MIPR | ARMY/TACOM (UNKNOWN) | NOV 98 | APR 99 | YES | | |
| 20K GAL WATER BLADDER | | | | | | | | | | |
| FY 1998 | 136 | 6.8 | AFMC/SA-ALC | C/FP/ MIPR | ARMY/TACOM (UNKNOWN) | FEB 98 | JUL 98 | YES | | |
| FY 1999 | 238 | 6.8 | AFMC/SA-ALC | OPT/FP | ARMY/TACOM (UNKNOWN) | MAY 99 | FEB 00 | YES | | |
| SELF HELP LAUNDRY | | | | | | | | | | |
| FY 1997 | 55 | 26.5 | AFMC/WR-ALC | C/FP | PORTER MFG LUBBOCK, TX | JUL 97 | JAN 98 | | | |
| FY 1998 | 43 | 26.5 | AFMC/WR-ALC | OPT/FP | PORTER MFG LUBBOCK, TX | APR 98 | DEC 98 | YES | | |
| 9-1 KITCHEN WATER SYSTEM | | | | | | | | | | |
| FY 1999 | 34 | 25 | AFMC/WR-ALC | C/FP | UNKNOWN | APR 99 | DEC 00 | YES | | |
| 4. RUNWAY SUBSYSTEMS | | | | | | | | | | |
| REMOTE AREA LIGHT SET | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|-------------|------------------|------------------------|--|--------------------------------|-------------------|-------------------------------|------------------------|-----------------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY 1997 | 40 | 33.1 | AFMC/SA-ALC | SS/FP | UNICOR RICHMOND, VA | APR 97 | NOV 97 | | | |
| 5. ELECTRICAL SUBSYSTEMS | | | | | | | | | | |
| SECONDARY DIST SYSTEM | | | | | | | | | | |
| FY 1997 | 92 | 19.4 | AFMC/SM-ALC | OPT/FP | ESSEX CHICAGO, IL | NOV 97 | JAN 99 | | | |
| FY 1998 | 102 | 26 | AFMC/SM-ALC | OPT/FP | ESSEX CHICAGO, IL | FEB 98 | JUN 99 | YES | | |
| FY 1999 | 84 | 28 | AFMC/SM-ALC | C/FP | UNKNOWN | FEB 99 | MAY 00 | YES | | |
| 750KW GENERATOR | | | | | | | | | | |
| FY 1997 | 21 | 188.7 | AFMC/SM-ALC | OPT/FP | MC II ELECTRIC DALLAS, TX | JUN 97 | SEP 98 | | | |
| 60KW GENERATOR WHEEL KIT | | | | | | | | | | |
| FY 1997 | 2 | 1.5 | AFMC/SM-ALC | OPT/FP | PROTOTYPE INC CLEVELAND, OH | JUN 97 | AUG 98 | | | |
| 9-1 KITCHEN ELECTRICAL SYS | | | | | | | | | | |
| FY 1999 | 10 | 30 | AFMC/WR-ALC | SS/FP | UNICOR RICHMOND, VA | FEB 99 | OCT 99 | YES | | |
| "B" PANEL ELECTRICAL | | | | | | | | | | |
| FY 1999 | 75 | 1 | AFMC/SM-ALC | C/FP | UNKNOWN | FEB 99 | AUG 99 | YES | | |
| "A" PANEL ELECTRICAL | | | | | | | | | | |
| FY 1999 | 54 | 1 | AFMC/SM-ALC | C/FP | UNKNOWN | JUL 99 | MAY 00 | YES | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|-----------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| PRIMARY DISTRIBUTION PANEL | | | | | | | | | | |
| FY 1999 | 179 | 0.5 | AFMC/SM-ALC | C/FP | UNKNOWN | JUL 99 | MAY 00 | YES | | |
| 6. SHELTERS | | | | | | | | | | |
| SMALL SHELTER SYSTEMS | | | | | | | | | | |
| FY 1998 | 50 | 31.5 | AFMC/ASC | C/FP | UNKNOWN | APR 98 | OCT 98 | YES | | |
| FY 1999 | 115 | 27.6 | AFMC/ASC | OPT/FP | UNKNOWN | NOV 98 | JAN 99 | YES | | |
| 4K SQ FT SHELTER | | | | | | | | | | |
| FY 1997 | 30 | 126.2 | AFMC/WR-ALC | C/FP | UNIVERSAL QUAKERTOWN, PA | APR 97 | OCT 97 | | | |
| FY 1998 | 15 | 121 | AFMC/WR-ALC | OPT/FP | UNIVERSAL QUAKERTOWN, PA | FEB 98 | JUN 98 | YES | | |
| FY 1999 | 35 | 121 | AFMC/WR-ALC | OPT/FP | UNIVERSAL QUAKERTOWN, PA | NOV 98 | APR 99 | YES | | |
| INITIAL DEPLOY KITCHEN (IDK) | | | | | | | | | | |
| FY 1997 | 10 | 433.7 | AFMC/WR-ALC | C/FP | FREDERICK MFG FREDERICK, MD | JUN 97 | NOV 98 | | | |
| FY 1998 | 14 | 180 | AFMC/WR-ALC | OPT/FP | FREDERICK MFG FREDERICK, MD | JUN 98 | JAN 99 | YES | | |
| FY 1999 | 6 | 180 | AFMC/WR-ALC | OPT/FP | FREDERICK MFG FREDERICK, MD | NOV 98 | JUN 99 | YES | | |
| 9-1 KITCHEN TENTAGE | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|---|--|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY 1999 | 24 | 52 | AFMC/WR-ALC | C/FP/MIPR | DPSC/PHIL, PA (UNKNOWN) | NOV 98 | MAY 99 | YES | | |
| LIGHT SET (TEMPER TENT) | | | | | | | | | | |
| FY 1998 | 280 | 0.32 | AFMC/WR-ALC | SS/FP | UNICOR RICHMOND, VA | FEB 98 | JUL 98 | YES | | |
| FY 1999 | 279 | 0.33 | AFMC/WR-ALC | SS/FP | UNICOR RICHMOND, VA | FEB 99 | JUL 99 | YES | | |
| 7. MISCELLANEOUS | | | | | | | | | | |
| SHIP/STORE CONTAINERS | | | | | | | | | | |
| FY 1997 | 22 | 7.4 | AFMC/WR-ALC | C/FP/ MIPR | DGSC AAR CADDILAC MFG CADILLAC, MI | SEP 97 | NOV 97 | | | |
| FY 1998 | 286 | 7.4 | AFMC/WR-ALC | OPT/FP MIPR | DGSC AAR CADDILAC MFG CADILLAC, MI | JAN 98 | MAR 98 | | | |
| FY 1999 | 610 | 7.6 | AFMC/WR-ALC | OPT/FP/ MIPR | DGSC AAR CADDILAC MFG CADILLAC, MI | NOV 98 | FEB 99 | YES | | |
| SPOOL DISK MACHINE | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|---|-------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MOBILITY EQUIPMENT | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY 1999 | 15 | 13 | AFMC/WR-ALC | C/FP | UNKNOWN | FEB 99 | APR 99 | YES | | |
| | | | | | | | | | | |
| REMARKS: ARMY TACOM, DETROIT MICHIGAN DEFENSE PERSONNEL SUPPLY CENTER (DPSC), PHILADELPHIA, PA DEFENSE GENERAL SUPPLY CENTER (DGSC), RICHMOND, VA | | | | | | | | | | |

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| | P-1 ITEM NO: 100 | | PAGE: 115 | |
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|---|--|----------------|---------------|--|---------------|----------------|-------------------------------|---------------|
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$1,948 | \$2,016 | \$2,258 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| <p>DESCRIPTION:</p> <p>1. This program provides funding for a family of containers that are airliftable, stackable, portable and waterproof. The containers come in many different sizes and are made of fibreglassed, reinforced plywood. They are designed to ship large quantities of assets with minimum time for loading, unloading, and set-up for use. The containers also provide physical security and protection from the elements as well as organization of contents for quick retrieval when required. Lack of funding for these containers will hinder combat readiness for fast deployment of various types of aircraft.</p> <p>2. There are two categories of containers:</p> <p style="margin-left: 40px;">a. Mobility Containers: Mobility containers consist of six National Stock Numbers (NSNs) and come in various sizes. They can be stacked up two units high when loaded. Load capacity varies up to 10,000 pounds. Mobility containers are designed to ship large quantities of assets economically, safely and quickly. Their use within an aircraft utilizes the least amount of space with the most amount of equipment possible. Mobility containers are moveable with a standard 10,000 lb forklift. These containers greatly enhance the staging of prepositioned assets. They are compatible with all modes of transport, whereas cardboard and plywood boxes and the strapping of loose equipment to pallets are not. With older containers, the user manually handles equipment requiring more time and manpower. With mobility containers, fewer aircraft are required for transport and less manpower is required for packing, setting up and retrieval of assets.</p> <p style="margin-left: 40px;">b. Tire Rack Containers: Tire rack containers consist of two NSNs. This family of containers come in different sizes to hold different size tires for various types of aircraft such as B-52, C-130, C-5, KC-135 and C-141. The length of the tire containers are compatible with the width of aircraft cargo pallets and the width and height are compatible with tire sizes. Individual tire containers will function effectively fully or partially loaded. They are designed for a maximum gross weight of 2,700 lbs, and are structured to retain their cargo under normal flight and handling safety load factors. Without these tire rack containers, tires must be stored in other types of containers, stacked loose on pallets or on shop floors. Storage in this manner limits unauthorized access to the tires. Use of containers allows for quick mobilization and easy direct access of the tires.</p> <p>3. FY97-99 funding provides for both replacements and initial shortages due to new designs, new missions and easier access. Identification of various types of containers and quantities being procured by fiscal year are displayed on the following P-5.</p> | | | | | | | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|---------------|--|--|--|---|--------------|---------------|---------|--------------|------------------------|---------|--------------|---------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS | | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 1. CONTAINER, 84 X 42 X 30 | A | | | | | | | | | | | | |
| NSN 8145-01-118-9872 | | | | | 250 | 1,587 | 397 | 291 | 1,606 | 467 | 221 | 1,641 | 363 |
| 2. CONTAINER, 84 X 42 X 60 | A | | | | | | (719) | | | | | | |
| NSN 8145-01-118-9873 | | | | | 350 | 2,001 | 700 | 375 | 1,485 | 557 | 521 | 2,069 | 1,078 |
| A. FIRST ARTICLE | | | | | 2 | 8,023 | 16 | | | | | | |
| B. TEST PLAN & REPORT | | | | | | | 3 | | | | | | |
| 3. CONTAINER, 62 X 42 X 30 | A | | | | | | | | | | | | |
| NSN 8145-01-118-9874 | | | | | 441 | 1,115 | 492 | | | | 103 | 1,115 | 115 |
| 4. CONTAINER, 62 X 42 X 52 | A | | | | | | | | | | | | |
| NSN 8145-01-118-9882 | | | | | 12 | 1,899 | 23 | | | | | | |
| 5. CONTAINER, 84 X 42 X 52 | A | | | | | | | | | | | | |
| NSN 8145-01-118-9883 | | | | | 2 | 4,630 | 9 | | | | | | |
| 6. CONTAINER, 62 X 42 X 60 | A | | | | | | | | | | | | |
| NSN 8145-01-118-9884 | | | | | 140 | 2,202 | 308 | 495 | 1,942 | 961 | 322 | 2,180 | 702 |
| 7. CONTAINER, TIRE RACK 84 X 61.5 X 65.3 | A | | | | | | | | | | | | |
| NSN 8145-01-119-5339 | | | | | | | | 20 | 753 | 15 | | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|---|---------------|--|--|--|---------|--|---------------|---------|--------------|---------------|-------------------------------|--------------|---------------|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS | | | | | | | |
| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| 8. CONTAINER, TIRE RACK 84 X 53.5 X 57.3 | A | | | | | | | | | | | | |
| NSN 8145-01-119-5341 | | | | | | | | 21 | 742 | 16 | | | |
| TOTALS | | | | | | | 1,948 | | | 2,016 | | | 2,258 |
| REMARKS: NOTE: UNIT COSTS ARE IN ACTUAL DOLLARS. TOTAL COSTS ARE IN THOUSANDS OF DOLLARS. | | | | | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS |
|---|--|

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--|------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| 1. CONTAINER, 84 X 42 X 30 8145-01-118-9872 | | | | | | | | | |
| FY97 | 250 | 1,587 | AFMC/WR-ALC | OPT/FP [1] | TANKINETICS HARRISON, AR | MAR 97 | JUL 97 | | |
| FY98 | 291 | 1,606 | AFMC/WR-ALC | C/FP | UNKNOWN | JUN 98 | OCT 98 | YES | |
| FY99 | 221 | 1,641 | AFMC/WR-ALC | OPT/FP | UNKNOWN | NOV 98 | MAR 99 | YES | |
| 2. CONTAINER, 84 X 42 X 60 8145-01-118-9873 | | | | | | | | | |
| FY97 | 350 | 2,001 | AFMC/WR-ALC | OPT/FP [2] | TANKINETICS HARRISON, AR | MAR 97 | JUL 97 | | |
| FY97 FIRST ARTICLE | 2 | 8,023 | AFMC/WR-ALC | C/FP | UNKNOWN | APR 98 | DEC 98 | YES | |
| FY98 | 375 | 1,485 | AFMC/WR-ALC | OPT/FP [3] | PAINTER DESIGN & ENGINEERING NEW BALTIMORE, MI | MAR 98 | NOV 98 | YES | |
| FY99 | 521 | 2,069 | AFMC/WR-ALC | OPT/FP [4] | UNKNOWN | JAN 99 | SEP 99 | YES | |
| 3. CONTAINER, 62 X 42 X 30 8145-01-118-9874 | | | | | | | | | |
| FY97 | 400 | 1,115 | AFMC/WR-ALC | OPT/FP [5] | PLASTIC RESEARCH SANTA FE SPRINGS, CA | MAR 97 | NOV 97 | | |
| FY97 | 41 | 1,115 | AFMC/WR-ALC | OPT/FP [5] | PLASTIC RESEARCH SANTA FE SPRINGS, CA | MAY 97 | DEC 97 | | |
| FY99 | 103 | 1,115 | AFMC/WR-ALC | OPT/FP [5] | PLASTIC RESEARCH SANTA FE SPRINGS, CA | NOV 98 | JUN 99 | YES | |
| 4. CONTAINER, 62 X 42 X 52 8145-01-118-9882 | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS |
|---|--|

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--|------|-----------|-----------------|------------------------|-----------------------------|------------|------------------------|-----------------|----------------------|
| FY97 | 12 | 1,899 | AFMC/WR-ALC | OPT/FP [6] | TANKINETICS HARRISON, AR | MAR 97 | AUG 97 | | |
| 5. CONTAINER, 84 X 42 X 52 8145-01-118-9883 | | | | | | | | | |
| FY97 | 2 | 4,630 | AFMC/WR-ALC | SS/FP | TANKINETICS HARRISON, AR | DEC 96 | MAR 97 | | |
| 6. CONTAINER, 62 X 42 X 60 8145-01-118-9884 | | | | | | | | | |
| FY97 | 140 | 2,202 | AFMC/WR-ALC | OPT/FP [7] | TANKINETICS HARRISON, AR | MAR 97 | JUL 97 | | |
| FY98 | 495 | 1,942 | AFMC/WR-ALC | C/FP | UNKNOWN | JUN 98 | SEP 98 | YES | |
| FY99 | 322 | 2,180 | AFMC/WR-ALC | OPT/FP | UNKNOWN | NOV 98 | FEB 99 | YES | |
| 7. CONTAINER, TIRE RACK, 84 X 61.5 X 65.3 8145-01-119-5339 | | | | | | | | | |
| FY89 | 7 | 616 | AFMC/WR-ALC | C/FP | BCP MFG CO WINTERS, TX | FEB 89 | APR 90 | | |
| FY98 | 20 | 753 | AFMC/WR-ALC | C/FP | UNKNOWN | JUN 98 | SEP 99 | YES | |
| 8. CONTAINER, TIRE RACK, 84 X 53.5 X 57.3 8145-01-119-5341 | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|--|------|-----------|-----------------|--|---------------------------|------------|-------------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY88 | 3 | 554 | AFLC/WR-ALC | C/FP | BCP MFG CO WINTERS, TX | APR 89 | JUN 90 | | | |
| FY98 | 21 | 742 | AFMC/WR-ALC | C/FP | UNKNOWN | JUL 98 | OCT 99 | YES | | |
| REMARKS: UNIT COSTS ARE IN ACTUAL DOLLARS 1. OPTION TO FY96 CONTRACT AWARDED TO TANKINETICS. 2. OPTION TO FY96 CONTRACT AWARDED TO TANKINETICS. 3. OPTION TO FY96 CONTRACT AWARDED TO PAINTER. 4. FY99 OPTION WILL BE BOUGHT FROM NEW COMPETITIVE SOURCE IF FY97 FIRST ARTICLE IS ACCEPTED. 5. OPTION TO FY96 FIXED PRICE CONTRACT TO PLASTIC RESEARCH FOR PRODUCTION QUANTITIES. 6. OPTION TO FY96 CONTRACT AWARDED TO TANKINETICS. 7. OPTION TO FY96 CONTRACT AWARDED TO TANKINETICS. | | | | | | | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS CONTAINER, 84 X 42 X 30, NSN 8145-01-118-9872 | | |
| ASSET DYNAMICS (BY FDP): BEGINNING ASSET POSITION (As of 31 Mar 97) DELIVERIES FROM ALL PRIOR YEAR FUNDING QUANTITIES PROCURED WITH FY97 FUNDING QUANTITIES PROCURED WITH FY98 FUNDING QUANTITIES PROCURED WITH FY99 FUNDING TEST/TRAINING USAGE DISPOSALS END OF YEAR ASSET POSITION | FY 1997 | FY 1998 | FY 1999 | |
| | 5,017 | 5,713 | 6,004 | |
| | 446 | | | |
| | 250 | 291 | | |
| | | | 221 | |
| | 5,713 | 6,004 | 6,225 | |
| INVENTORY OBJECTIVE: PEACETIME PIPELINE/STOCK LEVEL PEACETIME STATIC LEVEL WRM OTHER TOTAL INVENTORY OBJECTIVE | 6,225 6,225 | VEH ELIGIBLE: BY1 REPLACE BY2 REPLACE VEH AUGMENT | | |
| REMARKS: | | | | |

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|--|----------------|---|-------------------------------|--|
| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS CONTAINER, 84 X 42 X 60, NSN 8145-01-118-9873 | | |
| ASSET DYNAMICS (BY FDP): BEGINNING ASSET POSITION (As of 31 Mar 97) DELIVERIES FROM ALL PRIOR YEAR FUNDING QUANTITIES PROCURED WITH FY97 FUNDING QUANTITIES PROCURED WITH FY98 FUNDING QUANTITIES PROCURED WITH FY99 FUNDING TEST/TRAINING USAGE DISPOSALS END OF YEAR ASSET POSITION | FY 1997 | FY 1998 | FY 1999 | |
| | 4,446 | 4,891 | 5,266 | |
| | 93 | | | |
| | 352 | 375 | | |
| | | | 521 | |
| | 4,891 | 5,266 | 5,787 | |
| INVENTORY OBJECTIVE: PEACETIME PIPELINE/STOCK LEVEL PEACETIME STATIC LEVEL WRM OTHER TOTAL INVENTORY OBJECTIVE | 5,787 5,787 | VEH ELIGIBLE: BY1 REPLACE BY2 REPLACE VEH AUGMENT | | |
| REMARKS: | | | | |

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS CONTAINER, 62 X 42 X 60, NSN 8145-01-118-9884 | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 6,966 | 7,108 | 7,603 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 2 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 140 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 495 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 322 | |
| TEST/TRAINING USAGE DISPOSALS | | | | |
| END OF YEAR ASSET POSITION | 7,108 | 7,603 | 7,925 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | | VEH AUGMENT | | |
| OTHER | 7,925 | | | |
| TOTAL INVENTORY OBJECTIVE | 7,925 | | | |
| REMARKS: | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: AIR CONDITIONERS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$1,200 | \$9,627 | \$10,668 | \$6,720 | \$6,219 | \$5,017 | \$3,569 |
| <p>DESCRIPTION:</p> <p>1. This program provides funding to fill shortages and to replace air conditioners that have exceeded their service life and are no longer economical to repair or maintain. These assets provide environmental control, both cooling and heating, for aircraft electronic maintenance shops and portable buildings. Old assets contain hydrochlorofluorcarbon (HCFC-22) which is a Class II ozone layer depleting substance due for phase out by 2005. New procurement items contain a non-ozone depleting refrigerant required for the Government to comply with the Montreal Protocol Treaty on substances that deplete the ozone layer and the Clean Air Act requiring the elimination of HCFC-22 refrigerant.</p> <p>2. FY97 funding begins procurement of the new A/E32C-39 air conditioner which is a 5-ton, electric motor driven, vapor cycle, skid mounted air conditioner with a cooling capacity of 54,000 British Thermal Units/HR (BTU/HR). FY97 funding procured one first article (FA) air conditioner, FY98 will procure 499 and FY99 funding will procure 699. Additionally, a nuclear, biological, chemically-hardened version is being procured to support War Reserve Material (WRM) requirements for transportable field hospitals. FY97 procured one FA; FY98 funding procures 321 air conditioners and FY99 funding will procure 235.</p> | | | | | | | | |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: AIR CONDITIONERS |
|---|--|

| WEAPON SYSTEM COST ELEMENTS | IDENT CODE | | | | FY 1997 | | | FY 1998 | | | FY 1999 | | |
|--|---------------|--|--|--|---------|--------------|---------------|---------|--------------|---------------|---------|--------------|---------------|
| | | | | | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST | QTY | UNIT COST | TOTAL COST |
| AIR CONDITIONER A/E32C-39 | A | | | | 1 | 501 | 501 | 499 | 10.8 | 5,389 | 699 | 10.8 | 7,543 |
| AIR CONDITIONER A/E32C-39 CHEMICALLY HARDENED | A | | | | 1 | 282 | 282 | 321 | 13.2 | 4,238 | 235 | 13.3 | 3,125 |
| TYPE I TRAINING | | | | | | | 6 | | | | | | |
| CONTRACTOR INCENTIVE | | | | | | | 300 | | | | | | |
| FA TEST REPORT | | | | | | | 13 | | | | | | |
| FA TEST PROCEDURES | | | | | | | 7 | | | | | | |
| TECH DATA | | | | | | | 91 | | | | | | |
| TOTAL | | | | | | | \$1,200 | | | \$9,627 | | | \$10,668 |
| | | | | | | | | | | | | | |
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REMARKS:

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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: AIR CONDITIONER A/E32C-39 | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 7,875 | 7,877 | 8,376 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 0 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 1 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 499 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 699 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | | | (354) | |
| END OF YEAR ASSET POSITION | 7,877 | 8,376 | 8,721 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 7,958 | VEH AUGMENT | | |
| OTHER | 2,594 | | | |
| TOTAL INVENTORY OBJECTIVE | 10,552 | | | |
| REMARKS: | | | | |
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| REQUIREMENTS STUDY (EXHIBIT P-20) | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | P-1 NOMENCLATURE: AIR CONDITIONER A/E32C-39 CHEMICALLY HARDENED | | |
| ASSET DYNAMICS (BY FDP): | FY 1997 | FY 1998 | FY 1999 | |
| BEGINNING ASSET POSITION (As of 31 Mar 97) | 146 | 147 | 468 | |
| DELIVERIES FROM ALL PRIOR YEAR FUNDING | 0 | | | |
| QUANTITIES PROCURED WITH FY97 FUNDING | 1 | | | |
| QUANTITIES PROCURED WITH FY98 FUNDING | | 321 | | |
| QUANTITIES PROCURED WITH FY99 FUNDING | | | 235 | |
| TEST/TRAINING USAGE | | | | |
| DISPOSALS | | | | |
| END OF YEAR ASSET POSITION | 147 | 468 | 703 | |
| INVENTORY OBJECTIVE: | | VEH ELIGIBLE: | | |
| PEACETIME PIPELINE/STOCK LEVEL | | BY1 REPLACE | | |
| PEACETIME STATIC LEVEL | | BY2 REPLACE | | |
| WRM | 703 | VEH AUGMENT | | |
| OTHER | | | | |
| TOTAL INVENTORY OBJECTIVE | 703 | | | |
| REMARKS: | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE SUPPORT EQUIPMENT) | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$6,615 | \$11,129 | \$16,844 | \$18,510 | \$25,255 | \$20,572 | \$21,271 |
| <p>DESCRIPTION:</p> <p>1. This program provides a wide variety of base support items with worldwide application. Examples are prefabricated shelters which provide industrial space at austere employment locations; water purification equipment, aircraft arresting systems; compressors which have various applications, refrigeration units, heaters; and trailer mounted steam cleaners. This base support equipment is the backbone of all base missions. Lack of funding for these equipment items limits maintenance capabilities, testing functions, communications capabilities, flight operations and the overall functional mission of every Air Force deployment area as well as every base in the Air Force.</p> <p>2. FY99 funding procures both initial shortages as well as replacement equipment which is facing obsolescence. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items requested for procurement in FY99 are identified on the following P-40a.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQ |
|---|---|

| | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|
| QUANTITY | | | | | | | |
| COST (in thousands) | \$1,159 | \$1,952 | \$2,035 | \$3,020 | \$3,049 | \$2,876 | \$2,877 |

DESCRIPTION:

1. The Technical Surveillance Countermeasures Equipment Program is a continuous program for the acquisition of Technical Surveillance Countermeasures (TSCM), Technical Investigative Equipment (TIE), and Investigative Support Equipment in support of the Air Force Office of Special Investigations (AFOSI). AFOSI-trained technical agent teams located on Air Force installations worldwide conduct specialized technical surveys to detect clandestine intelligence gathering devices in sensitive Department of Defense (DOD) facilities. These devices may be targeted against facilities for purposes of counterintelligence or competitive intelligence collections. These same agents also conduct numerous technical support operations annually in support of criminal, fraud, and counterintelligence investigations.

2. Some equipment items used to support these missions utilize antiquated technology and urgently need to be replaced. TSCM equipment must continually be updated to keep abreast of the technological advances incorporated in the design of current intelligence gathering devices. In addition, the use of technologically advanced equipment saves man-years of labor in extremely complex criminal and fraud investigations. As AFOSI's manpower pool decreases in size to meet DOD force structure levels, AFOSI's dependence on this advanced equipment will increase. Some equipment has also reached a phase in its life cycle when maintenance and repair costs have become excessive, and in some cases parts for those repairs are no longer available. The Air Force TSCM program is in danger of becoming ineffective with the continued use of old equipment. Sensitive Air Force facilities will become highly vulnerable to technical penetration without new/upgraded equipment.

3. This program also includes Investigative Support Equipment that supports the AFOSI specialized investigative services (USAF Polygraph Program, USAF Computer Crime Investigations, and AFOSI specialized evidence collection and analysis activities). Specially trained agents support all types of investigations with state-of-the-art surveillance equipment uniquely designed to monitor illicit activity and provide protection to undercover agents and informants. AFOSI polygraph examiners conduct over 6,000 polygraph examinations annually in support of criminal/fraud/counterintelligence investigations and counterespionage operations. Failure to maintain AFOSI's polygraph equipment will result in the loss of credibility of USAF polygraph exams and result in non-certification of polygraph examiners. Advances in computer technology and the amount of sensitive data maintained in USAF computer systems necessitate the procurement of state-of-the-art equipment to aid in computer intrusion investigations and the analysis of computer media evidence.

4. The following categories of investigative equipment are being procured in FY97-99. Project funding by fiscal year is provided on the following P-40a.

a. TSCM Survey Systems. These systems consist of TSCM equipment/components necessary to detect, exploit, and neutralize clandestine technical surveillance systems employed against sensitive Air Force and DOD facilities. Equipment must be upgraded to counter the threat presented by new and advanced technical surveillance devices. The capabilities of the equipment being procured is constantly reviewed to ensure that the most comprehensive surveys are conducted to disclose the presence of clandestine monitoring devices. These systems have the capability to search for covert transmissions from facilities both from the interior and exterior while not alerting a potential adversary of the TSCM team's presence. These systems include equipment to

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | DATE: FEBRUARY 1998 |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQ | |
| <p>examine telephone systems to determine their security. Additionally, equipment is needed to conduct non-destructive examinations of walls, furniture, etc. for concealed devices.</p> <p>b. Specialized Law Enforcement Surveillance Equipment. This specialized equipment is uniquely designed for and utilized during lawfully authorized monitoring of activities and conversations. This visual monitoring often occurs during the hours of darkness and sophisticated light enhancement equipment must be used. Audio monitoring during meetings between suspected criminals and undercover agents must be accomplished without the possibility of the agent being identified; therefore, updated equipment that is smaller and less susceptible to detection and interception must be procured to ensure the agents' safety. Video and audio monitoring is often done remotely and specialized equipment to clandestinely transmit the images and audio is used. Advances in telephone systems require continuing improvements and upgrades to AFOSI's telephone monitoring equipment to allow lawfully authorized intercepts. Additionally, the capability to track the movements of suspected individuals and contraband, without revealing law enforcement's presence and utilizing the latest advances in navigation and position systems, must be procured as existing technology in this area is rapidly becoming obsolete. Without maintaining pace with advancements in these areas, AFOSI's ability to detect and solve crimes with lawfully collected evidence from surveillance will be greatly diminished. Lastly, the capability to analyze and enhance audio and video recordings from both law enforcement surveillance and suspected individuals' audio/video equipment requires continuous upgrading to keep pace with advancing technology.</p> <p>c. Computer Crime and Intrusion Investigation Systems. This system of equipment specifically supports the growing investigative case load resulting from increasing use of computers used in crime, and the explosion of incidences of attempted intrusions into USAF and other DOD computer systems. This system will require continuing updates and enhancements to maintain pace with the criminal element's use of computers.</p> | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|-------------|------------------|------------------------|---|---|-------------------|-------------------------------|------------------------|-----------------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQ | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| A. TSCM SURVEY SYSTEMS | | | | | | | | | | |
| 1. PORTABLE TSCM RECEIVERS | | | | | | | | | | |
| FY97 | 1 | 160 | AFMC/ASC | SS/FFP | MATRIX ENGINEERING INC BALTIMORE, MD | MAR 98 | MAY 98 | YES | | |
| FY98 | 6 | 160 | AFMC/ASC | SS/FFP | MATRIX ENGINEERING INC BALTIMORE, MD | MAR 98 | MAY 98 | YES | | |
| FY99 | 6 | 160 | AFMC/ASC | SS/FFP | MATRIX ENGINEERING INC BALTIMORE, MD | DEC 98 | FEB 99 | YES | | |
| B. SPECIALIZED LAW ENFORCEMENT SURV EQ | | | | | | | | | | |
| 1. DIGITAL AUDIO RECORDERS | | | | | | | | | | |
| FY97 | 13 | 20 | AFMC/ASC | SS/FFP | ADAPTIVE DIGITAL SYSTEMS IRVINE, CA | OCT 96 | APR 97 | | | |
| FY98 | 1 | 20 | AFMC/ASC | OPT/FFP | ADAPTIVE DIGITAL SYSTEMS IRVINE, CA | APR 98 | JUL 98 | YES | | |
| FY99 | 2 | 20 | AFMC/ASC | OPT/FFP | ADAPTIVE DIGITAL SYSTEMS IRVINE, CA | DEC 98 | APR 99 | YES | | |
| 2. VIDEO SWITCHER/DATE, TIME GENERATOR | | | | | | | | | | |
| FY97 | 140 | 1.5 | AFMC/ASC | SS/FFP | ADAPTIVE DIGITAL SYSTEMS IRVINE, CA | AUG 97 | DEC 97 | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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APPROP CODE/BA:
OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT

P-1 NOMENCLATURE:
TECHNICAL SURVEILLANCE COUNTERMEASURES EQ

| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|---------------------------------|------|-----------|-----------------|------------------------|--|------------|------------------------|-----------------|----------------------|
| 3. MICROWAVE TRANSMITTERS | | | | | | | | | |
| FY97 | 60 | 4.6 | AFMC/ASC | SS/FFP | GENERAL MICROWAVE SERVICES OCEANSIDE, CA | OCT 96 | APR 97 | | |
| 4. SPREAD SPECTRUM TRANSMITTERS | | | | | | | | | |
| FY97 | 13 | 16 | AFMC/ASC | SS/FFP | WESTINGHOUSE/ AID, INC FT LAUDERDALE, FL | OCT 96 | APR 97 | | |
| 5. NIGHT VISION DEVICES | | | | | | | | | |
| FY97 | 10 | 3.9 | AFMC/WR-ALC | MIPR/OPT/ FFP [1] | ARMY ITT, ROANOKE, VA | DEC 96 | APR 97 | | |
| 6. PAGER INTERCEPTION EQ | | | | | | | | | |
| FY98 | 1 | 3 | AFMC/ASC | MIPR/OPT/ FP | FBI / TGA TECHNOLOGIES ATLANTA, GA | MAY 98 | JUL 98 | YES | |
| FY99 | 1 | 3 | AFMC/ASC | MIPR/OPT/ FP | FBI / TGA TECHNOLOGIES ATLANTA, GA | JAN 99 | MAY 99 | YES | |
| 7. GPS VEHICLE TRACKING | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | DATE: FEBRUARY 1998 |
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| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQ |
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| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL |
|--|------|-----------|-----------------|------------------------|--------------------------------------|------------|------------------------|-----------------|----------------------|
| FY98 | 4 | 15 | AFMC/ASC | MIPR/C/FFP | FBI / GANS & PUGH ASSOC. HERNDON, VA | JAN 98 | APR 98 | | |
| FY99 | 3 | 15 | AFMC/ASC | MIPR/OPT/FFP | FBI / GANS & PUGH ASSOC. HERNDON, VA | DEC 98 | APR 99 | YES | |
| 8. CCTV LENSES | | | | | | | | | |
| FY98 | 26 | 3.8 | AFMC/ASC | C/FFP | UNKNOWN | FEB 98 | APR 98 | YES | |
| 9. DISGUISED ANTENNAS | | | | | | | | | |
| FY99 | 300 | .21 | AFMC/ASC | C/FFP | UNKNOWN | DEC 98 | APR 99 | YES | |
| C. COMPUTER CRIME & INTRUSION INVESTIGATION SYSTEMS | | | | | | | | | |
| 1. FLD MEDIA ANALYSIS EQ | | | | | | | | | |
| FY98 | 13 | 61.8 | AFMC/ASC | C/FFP | INTELLIGENT DECISIONS CHANTILLY, VA | JAN 98 | APR 98 | | |
| FY99 | 13 | 63.4 | AFMC/ASC | OPT/FFP | INTELLIGENT DECISIONS CHANTILLY, VA | DEC 98 | APR 99 | YES | |
| 2. INTRUSION ANALYSIS EQ | | | | | | | | | |
| FY99 | 1 | 100 | AFMC/ASC | C/FFP | UNKNOWN | JAN 99 | MAY 99 | YES | |
| 3. FORENSIC LAB EQ | | | | | | | | | |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P-5A) | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|------|-----------|-----------------|--|-------------------------------------|------------|------------------------|-----------------|----------------------|--|
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: TECHNICAL SURVEILLANCE COUNTERMEASURES EQ | | | | | | |
| ITEM/FISCAL YEAR | QTY. | UNIT COST | LOCATION OF PCO | CONTRACT METHOD & TYPE | CONTRACTOR AND LOCATION | AWARD DATE | DATE OF FIRST DELIVERY | SPECS AVAIL NOW | DATE REVISIONS AVAIL | |
| FY98 | 1 | 5 | AFMC/ASC | C/FFP | INTELLIGENT DECISIONS CHANTILLY, VA | DEC 97 | MAR 98 | | | |
| REMARKS: 1. OPTION TO EXISTING ARMY CONTRACT FOR NIGHT VISION DEVICES THROUGH WARNER ROBINS AIR LOGISTICS CENTER. | | | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: INDUSTRIAL PREPAREDNESS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$1,347 | \$1,121 | \$1,162 | \$1,168 | \$1,176 | \$1,189 | \$1,199 |
| <p>DESCRIPTION: Program funding in Other Procurement/Air Force (OPAF) combines with several other appropriations to form the Air Force Industrial Resources Program. The goal of the Industrial Resources Program is to ensure that the defense industry has world-class capability for producing and sustaining reliable, affordable systems to operational users in peacetime and national emergencies. The Industrial Preparedness OPAF activities assess the critical sectors and industries within the communications and electronics industrial base and provide information on industrial capability issues for consideration during key budget allocation, weapon acquisition, and logistical support decision processes. Projects address affordability issues, diminishing manufacturing source risks, or manufacturing support to both acquisition and sustainment programs. FY97-99 continues to provide funding for industrial base assessment projects.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: MODIFICATIONS | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$ 0 | \$ 189 | \$ 170 | \$ 179 | \$ 177 | \$ 283 | \$ 290 |
| <p>DESCRIPTION:</p> <p>1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems or equipment. This budget line encompasses both new and on-going modification efforts for base maintenance and support equipment.</p> <p>2. The dollars budgeted in FY99 are for "Miscellaneous Low Cost Modifications" to satisfy historically unforeseen modification requirements.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT | | | | P-1 NOMENCLATURE: FIRST DESTINATION TRANSPORTATION | | | | |
| | | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| QUANTITY | | | | | | | | |
| COST <small>(in thousands)</small> | | \$13,121 | \$14,320 | \$16,442 | \$15,690 | \$15,757 | \$18,759 | \$18,811 |
| DESCRIPTION: First Destination Transportation (FDT) is the movement of property from free-on-board (F.O.B.) point of acquisition to the point at which the material is first received for use, storage, or distribution in the military supply system. When it is to the advantage of the government, transportation costs are included in the contractual price of the investment item (F.O.B. destination) and financed as part of their unit cost. This P-1 line program provides for CONUS inland movement of material newly procured by Air Force major commands (MAJCOMs) from contract plants to depot facilities, CONUS Air Force bases, or aerial/water ports for onward movement. FY99 funding will provide for shipment of items procured F.O.B. origin from Air Force Procurement Appropriations (Aircraft, Missile, Ammunition and Other Procurement). The requirement is based on material buy programs in the procurement appropriations and is computed using a factor relationship of FDT costs to the value of procurement programs. | | | | | | | | |

DEPARTMENT OF THE AIR FORCE
OTHER PROCUREMENT PRESIDENT'S BUDGET
FOR FISCAL YEAR 1999

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SPARES AND REPAIR PARTS

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| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE: FEBRUARY 1998 | |
| APPROP CODE/BA: OPAF/SPARES AND REPAIR PARTS | | | | P-1 NOMENCLATURE: SPARES AND REPAIR PARTS | | | | |
| QUANTITY | FY 1996 | FY 1997 | FY1998 | FY1999 | FY2000 | FY 2001 | FY2002 | FY2003 |
| COST <small>(in thousands)</small> | \$ | \$36,510 | \$54,500 | \$52,712 | \$46,423 | \$41,583 | \$36,213 | \$30,380 |
| <p>DESCRIPTION:</p> <p>1. Initial Spares are reparable components, assemblies, and subassemblies, as well as consumables required as initial stockage (including readiness spares package requirements) in support of newly fielded vehicles; other base maintenance and support items; and electronics and telecommunications equipment. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data on similar equipment, employment/deployment concepts, production schedules and other related information. Initial spares are procured using obligation authority in the Air Force Supply Management Activity Group (AFSMAG) of the Air Force Working Capital Fund (AFWCF) with the exception of intelligence and communications security spares which are not managed by the Standard Base Supply System (SBSS). For spares bought through the AFWCF, procurement funds will reimburse the AFSMAG as outlays occur and are, therefore, budgeted based on outlay projections. Funds for spares not managed through the SBSS are budgeted in the year of the requirement.</p> <p>2. Replenishment Spares are components, assemblies, and subassemblies required for follow-on support of end items. Replenishment spares funded in this P-1 line are non-stock listed spares in support of classified programs which are not managed through the Standard Base Supply System. Therefore, these spares are exempt from the AFWCF and are budgeted in the year of the requirement.</p> | | | | | | | | |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | |
|--|------------|--------|---------|--|---------|--------|------------------------|--|
| APPROP CODE/BA: OPAF/SPARES AND REPAIR PARTS | | | | P-1 NOMENCLATURE: SPARES & REPAIR PARTS | | | | |
| PROCUREMENT ITEMS | ID CODE | FY1997 | | FY1998 | | FY1999 | | |
| | | QTY. | COST | QTY. | COST | QTY. | COST | |
| INITIAL SPARES | | | | | | | | |
| P-1 LINE NO. 24 ITEMS LESS THAN \$2M, FIRE FIGHTING EQUIPMENT | | | \$ 132 | | \$ 126 | | \$ 84 | |
| P-1 LINE NO. 27 60K A/C LOADER | | | | | \$ 371 | | \$2,541 | |
| P-1 LINE NO. 36 INTEL DATA HANDLING | | | | | \$ 446 | | \$ 387 | |
| P-1 LINE NO. 38 INTEL COMMUNICATIONS EQUIPMENT | | | | | \$ 963 | | \$ 354 | |
| P-1 LINE NO. 40 NATIONAL AIRSPACE SYSTEM | | | | | \$1,009 | | \$5,639 | |
| P-1 LINE NO.41 THEATER AIR CONTROL SYS IMPRV | | | \$6,153 | | \$6,132 | | \$4,211 | |
| P-1 LINE NO. 42 WEATHER OBSERVATION/FORECAST | | | \$ 828 | | \$1,376 | | \$ 748 | |
| P-1 LINE NO. 43 STRATEGIC COMMAND AND CONTROL | | | | | \$1,456 | | \$1,761 | |
| P-1 LINE NO. 44 CHEYENNE MOUNTAIN COMPLEX | | | \$2,701 | | \$3,171 | | \$1,464 | |
| P-1 LINE NO. 49 MOBILITY COMMAND & CONTROL | | | \$ 581 | | \$1,247 | | \$ 123 | |
| P-1 LINE NO.50 AIR FORCE PHYSICAL SECURITY | | | \$2,808 | | \$1,983 | | \$ 823 | |
| P-1 LINE NO. 51 COMBAT TRAINING RANGES | | | \$1,456 | | \$2,942 | | \$1,823 | |
| P-1 LINE NO. 56 BASE INFO INFRASTRUCTURE | | | | | | | \$1,946 | |
| P-1 LINE NO. 57 THEATER BATTLE MGMNT C2 SYS | | | | | \$2,618 | | \$1,895 | |
| P-1 LINE NO. 62 NAVSTAR GPS (SPACE) | | | \$ 106 | | \$1,464 | | \$1,847 | |
| P-1 LINE NO. 65 AIR FORCE SATELLITE CONTROL NETWORK (SPACE) | | | \$2,607 | | \$2,353 | | \$2,025 | |
| P-1 LINE NO. 66 ESMC/WSMC RANGE I&M SPACE | | | \$1,710 | | \$3,768 | | \$7,754 | |

